

NO-TILLAGE FARMING
First practice of no-tillage crop production in Ky. occurred on this farm in 1962. Harry and Laurence Young, of Christian Co., were among first in nation to experiment with no-tillage techniques, which use herbicides in providing seed bed in residue stubble. Conserves soil and water; saves time, labor, fuel, and often produces higher crop yields.
Sponsored by Du Pont Agricultural Chemicals Dept.
KENTUCKY HISTORICAL SOCIETY KENTUCKY DEPARTMENT OF TRANSPORTATION 1962



Celebrating

30TH ANNIVERSARY

Celebrating

60
years



**NATIONAL
NO-TILLAGE
CONFERENCE**

30
years

**OF NO-TILL'S
FIRST USE**

January 4-7, 2022 • Louisville, Ky.

**AS THE LEADING
NO-TILL EVENT**



**RETURN to
NO-TILL'S ROOTS**

The National No-Tillage Conference is returning to the "birthplace of no-till" Jan. 4-7, 2022, for our 30th anniversary event in beautiful downtown Louisville, Ky., at the legendary Galt House Hotel. This will be nothing less than a very special occasion — and we want to celebrate this milestone with you!

Register Online Today at www.NoTillConference.com!

Get Your Year Off to a Fast Start With This Year's Historic No-Till Triple Crown Event

Commemorating 3 Milestones in No-Tillage ...

60 Years (No-Till's First Commercial Plots), 50 Years (No-Till Farmer), 30 Years (National No-Tillage Conference)

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 30th year, we're ready to do it again as our event takes place at the spacious, historic Galt House Hotel in downtown Louisville.

We've lined up dozens of 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

powerful annual conference offers intensive early Workshops, General Sessions, No-Till Classrooms and 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 networking with the most innovative and forward-thinking minds in no-till during this January event that kicks off the 2022 crop production season. Don't miss out!

TUESDAY, JANUARY 4

Noon to 2:00 p.m. "SPECIAL MEMBERS-ONLY WORKSHOP

— Turning Social Media into Your No-Till Honey Pot."

(This workshop, limited to 99 attendees, costs just \$75 to attend and is available only to registered NNTC attendees. Sign up for this workshop using the form on Page 12.)

Social media can be a gateway to the world. But for many farmers, the thought of venturing onto platforms like Facebook, Twitter or Instagram to tell their farm's story or market their products can be very intimidating.

Michelle Miller, a writer, columnist and online influencer in agriculture known as the "Farm Babe" will host an exclusive 2-hour workshop to help attendees get off the starting block with social media management and direct marketing. Miller will explain the pros and cons of using certain platforms and share examples of how growers are using them successfully. She'll offer tips as well on how to find contacts for locally grown products and how to deal with negativity that crops up on social media.

2:30 to 5:30 p.m. "SPECIAL MEMBERS-ONLY WORKSHOP

— Developing Your No-Till 'Soil Sense.'"

(This workshop, limited to 30 attendees, costs just \$99 to attend and is available only to registered NNTC attendees. Sign up for this workshop using the form on Page 12.)

Want to know more about your soils? Then it's time to get your

hands dirty! Bring 3 Ziplock bags, each with a handful of soil (all the same soil type) — one from your best field, one from your worst, and one from an undisturbed area — and join agroecologist Nicole Masters of Integrity Soils for an exclusive 3-hour hands-on workshop.

Empower yourself with deeper observational skills around soil health and what certain indicators are telling you, based on what you're seeing and what key tests are showing. Are your soils constipated, or do they have 'diarrhea' or are they in a coma? Attendees will come away with a better understanding of how underground dynamics affect above ground crop production and how they can see that for themselves.

6:30 to 9:00 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 the Corteva Carbon Initiative, Ferroxx Slug & Snail Bait, NewLeaf Symbiotics and the Oregon Department of Agriculture. 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 5

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 \$137.75.

7:30 to 8:10 a.m. "Get Your Coffee to Start the Day Right."

Strike up a discussion with your fellow no-tillers about what you hope to learn at the conference with coffee and more courtesy of Sound Agriculture, and get in some early networking before it all starts!



8:15 a.m. "Official Kickoff — 30th Annual National No-Tillage Conference."

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

8:20 to 9:20 a.m. NNTC Kickoff Session —

Made possible by H&R Agri-Power.

"The Future of No-Tilling — Business and Profit."

It's been almost 6 decades since Harry Young Jr. no-tilled the first commercial plot of corn in Herndon, Ky., and no-till has certainly come a long way since, as the bold experiment set off an agricultural evolution across the U.S. and globally. But farmers must still log a profit as they do right by soil health to stay in business.

John Young, Harry's son, and Harry's grandsons Alex and Jeffrey, will be using data culled from a cutting-edge econometric formula to discuss the



John Young

Speakers and schedules subject to change without notice.

YOUR IMPACTFUL LEARNING INCLUDES: Actionable Ideas from Dozens of Top-Notch Speakers ... Roundtables to Get Specific Answers... Exclusive Workshops on Soil Biology and Social Media Marketing ... No-Till History Museum ... Valuable Bonuses of New Reports & Much More!





economic forecast for yields, prices and production trends across the globe to clarify what the profit picture could look like in the future for no-tillers. And they'll discuss how no-tillers can use this data to position themselves to farm not only more sustainably but more profitably in the future.

9:30 to 10:20 a.m. — SPECIAL SESSION

"Experts and Innovators: No-Till's Best Share Their Failures and Success." **ALL NEW**

The No-Till Innovator Awards program has been recognizing trailblazers in no-till farm management and education for a quarter century, and the all of the recipients have a wealth of knowledge and experience that can help current growers boost their own operation's bottom line.

In this special session, *No-Till Farmer* founding editor Frank Lessiter will have a wide-ranging discussion with five past Innovators about no-till, their greatest mistakes, their biggest turning points and what the future holds for those building dynamic, profitable no-till systems.

10:20 to 11:10 a.m. "If it's Not Wacky Enough, it May Not Work!"

Rick Clark isn't happy unless he's thinking outside the box — with his earlier experiment of no-tilling soybeans into cereal rye and killing the rye with a roller-crimper as one example that "wacky ideas" are good and can be profitable too, says the Williamsport, Ind., no-tiller.



Rick Clark

Clark will share the "what" and "why" with several new initiatives ongoing at his innovative farm that include getting three crops off of an acre with peas, wheat and soybeans, planting soybeans behind livestock and boosting biodiversity by raising multiple cash crops at the same time rather than relying solely on cover crops to do that. He'll also review the economics of these cutting-edge practices and what lies ahead for his farm.

11:15 to 11:55 a.m.

Sponsor/Networking Break

Noon to 1:25 p.m. Annual NNTC

Luncheon Sponsored by Advancing Eco Agriculture.

"Turning to Regenerative Practices to Raise Profitable Crops."

(Included in your No-Till

Conference registration fee.)

When managed properly, the soils and climate in southern New Mexico's Carzalia Valley can produce a bevy of valuable crops — even in the high desert, which features hot days, cool nights and low precipitation.

James Johnson, vice president of Carzalia Valley Produce, will discuss how his switch to regenerative ag has been beneficial to his 3,000-acre operation near Columbus, N.M. Jason Hobson, CEO of Advancing Eco Agriculture, will detail the company's role in helping Johnson build a sustainable, profitable future.



James Johnson

1:30 to 1:45 p.m. No-Till Innovator Awards Ceremony.

Join **Calmer Corn Heads** and *No-Till Farmer* staff to honor the 2021 class of individuals, businesses and organizations who've had a major impact on the growth of no-till systems in the U.S. and across the world.



Harry Young Jr. Memorial Lecture Series

1:45 to 3:15 p.m.

"Critical Crops: Triage for No-Till Success."

Soil health has no silver bullets, which means that for no-tillers to maximize profitability and productivity on their farms they must take a step back to identify the factors that enable healthy, productive and profitable cropping systems, says Nicole Masters.



Bayer Carbon Program

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Bio-Tech Inc.

PhycoTerra

exapta
solutions, inc.

indigo
from questions we grow

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GS3 QUALITY
SEED

"If we could absorb and apply all the information picked up at the National No-Till Conference, we would all be millionaires in a short time. I just want to retain and apply 10% each year..."

— Donald Ballagh, North Rose, N.Y.

The first step is changing the way growers perceive opportunities and the environment around them — which in turn influences their ability to take action, says the agroecologist, educator and founder of Integrity Soils. Adopting a “regenerative mindset” frames the questions growers ask and the observations they make. Using examples from farms in New Zealand, Australia and North America, Masters will share how these growers transformed their ground into low-input, efficient, future focused farm operations. **Sponsored by Bayer Carbon.**



Nicole Masters

3:25 to 4:25 p.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 “Grazing Cover Crops for Healthy Soil and Profits.”

Cover crops are important on Jimmy and Ginger Emmons’ farm not just for soil health but for grazing, as they manage a 250-cow/calf herd and take in yearling cattle for custom grazing on 6,000 acres of native range in Leedey, Okla.

Emmons will talk about the why, how and outcomes of grazing cover crops with their adaptive multi-paddock grazing system — moving on from “the way we’ve always done it” to a more sustainable operation. Instructional videos of fencing made easy and portable water systems will be shown as well. “If we can do it,” Jimmy says, “why can’t you?”



Jimmy Emmons

► No-Till Classroom #2 “The Relationship Between Earthworms and Residue Management.”

Organic matter is an essential part of healthy soils, which are crucial for no-tilling productive crops. After years of conducting research on stratification of nutrients in the soil, the Alpha, Ill., no-tiller says his data shows organic matter can also stratify in the soil profile if it’s not moved by earthworms.

After going through the data, Calmer (1996 No-Till Innovator) will share some tips and suggestions to help no-tillers process crop residue more thoroughly and evenly to optimize soil health, earthworm numbers and organic matter distribution in the soil profile.



Marion Calmer

► No-Till Classroom #3 “Using a Trifecta of Tools to Improve Soil and Water Quality.”

Combining no-till, strip-till, cover crops and livestock isn’t easy, but second-generation farmer Robb Ewoldt has gotten it done on his 1,100-acre farm, which includes 125 beef cattle, horses and a 2,400-head wean-finish barn, where they feed pigs for Eichelberger Farms.

The Davenport, Iowa, grower will explain how this varied set of tools has helped him improve soil and water quality, reduce soil erosion and lower his use of crop protection products. And he’ll add lessons he’s learned from 25 years of implementing cover crops, document the value his operation has gained from a no-till, cover-crop system and describe how he manages labor needs by farming on his own.



Robb Ewoldt

► No-Till Classroom #4 “Embracing Adaptation and Understanding Your No-Till Potential.”

There are many challenges to building a successful no-till system and sometimes growers may need to take a step back to see what’s happening on their farm now and decide where they’re going in the future.

West Union, Iowa, no-tiller Loran Steinlage (2020 No-Till Innovator) has faced many of these challenges and invites growers in this classroom session to come ready to discuss areas they’d like to improve on — whether it’s troubleshooting issues in the field, equipment practices, soil health, converting to organic production or other topics. “I want to talk more about what people want to do and help them understand what their potential is,” Steinlage says.



Loran Steinlage

► No-Till Classroom #5 “Turning a Maverick Practice into a Business.”

After a highboy cover crop seeder owned by a county conservation district fell silent, Jay Baxter is turning the situation into a win-win for his operation and surrounding farms.

The Georgetown, Del., no-tiller will share the cover crop interseeding business he has started after signing a rental agreement for the machine with a local conservation district. Baxter will describe the capabilities the machine gives him to get cover crops seeded in August, as well as the optimum timing is for the practice and what benefits are provided to the cash crop.



Jay Baxter

► No-Till Classroom #6 “Boosting Your Farm’s Resilience with Soil Health Practices.”

Faced with wild swings in both the weather and markets, Levi and Crystal Neuharth know that when it comes to building operational resilience on their Fort Pierre, S.D. farm, no-till is just the beginning.

The Neuharths will explain how they’ve incorporated all five principles of soil health to maximize water infiltration, minimize inputs, increase soil organic matter, reduce crop stress levels and secure diversified revenue streams. Learn how multi-species grazing, rotational grazing, cover crops, diverse crop rotations and erosion control can place your farm or ranch on solid footing for the future.



Levi Neuharth

4:35 to 5:35 p.m. “20 Super No-Till Roundtables.”

Select from 20 No-Till Roundtables where attendees can ask questions, discuss challenges and contribute field-proven ideas on a specific topic. Longtime conference attendees say these “one-of-a-kind idea swaps” are



worth the cost of attending the conference all by themselves. Send others from your farm to different sessions to capture even more learning.

1. Dandy Drill Setups for Dynamite Soybean Stands
2. Making the Most out of Manure Applications
3. Snagging Higher Yields with Super Sidedressing Strategies
4. Building Up Better Strip-Till Berms
5. Raising the Roof on Production of No-Tilled Alfalfa, Forages
6. Exclusively for Case IH Planter Users
7. Cover Crop Strategies in the Northern Plains, PNW
8. Cover Crop Strategies in the Mid-South, Southeast
9. Cover Crop Strategies in the Northeast, Mid-Atlantic
10. Cover Crop Strategies in Minnesota, Wisconsin
11. Cover Crop Strategies in Michigan, Ontario
12. Cover Crop Strategies in Ohio (North of I-70)
13. Cover Crop Strategies in Ohio (South of I-70)
14. Cover Crop Strategies in Indiana (North of I-70)
15. Cover Crop Strategies in Indiana (South of I-70)
16. Cover Crop Strategies in Illinois (North of I-70)
17. Cover Crop Strategies in Illinois (South of I-70)
18. Cover Crop Strategies in Iowa
19. Cover Crop Strategies in Missouri
20. Cover Crop Strategies in the Southern & High Plains

5:35 to 7:45 p.m. “Dinner On Your Own.”

Frank Lessiter Legacy Lecture Series

7:45 to 8:35 p.m. “Healing the Patient’ with Dynamic No-Till Systems.”

While no-till practices have stopped the bleeding, Dwayne Beck argues that farmers have not “healed the patient yet” and there’s more



to be done to save the life and heartbeat of agriculture. He says that involves not trying to raise the most crops as cheaply as possible and shipping all of the nutrients out to other places after harvest.

The farm manager at Dakota Lakes Research Farm in Pierre, S.D., will share what steps no-tillers can take to transition their operations from linear, regressive systems and build regenerative practices to protect water, nutrients and energy and keep their farms productive for decades to come. ***Made Possible by Calmer Corn Heads.***

8:35 to 9:30 p.m. “Unboxing the Future, Getting Beyond the Labels.”

While a lot is changing with food systems and agriculture, what hasn’t changed is the labeling and pigeonholing of farm practices, says Michelle Miller. Although organic markets are booming, consumers are also becoming more skeptical, and some farmers have difficulty fitting in with the regenerative crowd — all of which is watering down the work farmers are doing.

Miller, the writer, columnist and online influencer in agriculture known as the “Farm Babe” will describe how any farmer can take part in exciting new markets being created and diversify their operation without getting bogged down in labeling and buzz words. She’ll also talk about the conservation work no-tillers are doing and why it is still important to consumers and to their profitability and future.



Michelle Miller

9:30 to 11:30 p.m. “Wrap Up Your Day at the NNTC Hospitality Event.”

Courtesy of Helm Agro U.S.

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.



55 INTERACTIVE NO-TILL ROUNDTABLES

The interaction between no-tillers that occurs over the course of 4 days at the National No-Tillage Conference will be some of the most valuable learning available. Our roundtable sessions bring no-tillers together to discuss a focused topic for 60 minutes. These sessions provide you with the opportunity to get your burning no-till questions asked and answered to help shape future planning and decision making on your farm.

Taking home just one new idea from these candid conversations is annually cited as one of the top takeaways by attendees. **See pages 5, 9 and 10 for a full list of discussion topics that you’ll get to pick from during three roundtable sessions.**



4 Tips to Get the Most Out of Your No-Till Roundtable Discussion:

1. **COME PREPARED:** Jot down the key questions you want to pose to the group to ensure you leave with valuable advice and feedback. And prepare a list of your own successes around the topic to help others avoid mistakes and achieve similar successes.
2. **DIVIDE AND CONQUER:** If attending the event with other farm/family members, split up and attend different roundtables to gain more perspectives.
3. **BE PRESENT:** You paid to be at this event. Get your money’s worth by being an active participant. Engage yourself in the dialogue, and remember it is okay to have a difference of opinion.
4. **CONTINUE THE DISCUSSION:** Whether at the conclusion of the roundtable session, or at a later point during the event, seek out your roundtable moderators and fellow attendees and keep the idea-sharing going!

“When I spend dollars on education for my people, your conference is first on the list every year...”

— Joe Nester, Bryan, Ohio



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 \$137.75.

7:00 to 8:00 a.m. Early Bird No-Till Breakfast

Sponsored by AgroLiquid.

(Included in your No-Till Conference registration fee.)



8:00 to 8:45 a.m.

14th Annual Responsible Nutrient Management Practitioners

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.

9:00 to 10:00 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 #7

"Insect/Plant Interactions Between 6 and 14 Leaf Brix."

It's often stated that achieving a leaf brix of 12 in the canopy will protect your plants from insects and disease. But is this true? Will insects be deterred at lower brix levels, and what factors increase or decrease brix?

Gainesville, Fla.-based entomologist Thomas Dykstra will demystify some of the confusion surrounding leaf brix by hosting an informal discussion involving brix numbers and how they relate to insect damage. He'll also cover how to use a brix refractometer. Bring your questions, a notebook and an open mind as Dykstra introduces you to the world of insect/plant interactions.



Thomas Dykstra

► No-Till Classroom #8

"Making a No-Till Cover Crop System a Profitable Venture."

Even as a younger farmer, Macauley Kincaid has seen a lot of success with regenerative agriculture, as he's already paid off his first farm after less than 10 years in the business. He's done so through identifying fresh business opportunities and creating savings to drive profitability as he bases his farming system around the principles of soil health and encouraging the carbon cycle.

The Jasper, Mo., grower will explain how he incorporates no-till, cover crops and livestock into his 650-acre operation to "farm smarter, not harder," as well as share how he keeps expenses low while pushing returns higher.



Macauley Kincaid

► No-Till Classroom #9

"Overcoming Challenges of Organic No-Till Systems."

No-tilling and organic practices were once thought to be incompatible. But improvements in technology and the re-emergence of cover crops means some growers, like Rick Clark, are taking advantage of price premiums available on the rapidly growing organic market.

The Williamsport, Ind., no-tiller will share how he's converting his 7,000-acre operation to organic methods and dealing with the inherent learning curves. He'll follow that with an extended Q&A period to answer questions from attendees.

► No-Till Classroom #10

"Developing a Systems Approach to Soil Health."

Incorporating regenerative practices in a no-till system has become widely accepted as an important step in developing soil health and achieving improved outcomes such as better water infiltration, higher organic matter, and better yields. But it's important to be mindful about implementing these practices to get the best possible results.

No-tiller Russell Hedrick of Hickory, N.C., will explain how to approach the implementation of regenerative practices in a systematic way so as to accelerate the benefits and reduce the likelihood of poor outcomes. He'll address making cover crop choices based on goals, how to integrate livestock grazing, adding diversified crops that work well together or in succession, combinations to avoid and much more.



Russell Hedrick

► No-Till Classroom #11

"Cover Crops 101: How to Get Started with Cover Crops."

Theories about incorporating cover crops are great but for the uninitiated, they can be intimidating. Cover crop specialist T.J. Kartes from Saddle Butte Ag knows this first-hand and will talk about the successes and setbacks he's experienced in adding cover crops to both strip-till and no-till systems.

T.J. lives in southern Minnesota and brings ground-level experience from adding cover crops to farming operations. Knowing how to get started is key, and in this session he will discuss species selection, seeding rates and methods, termination methods, assessing germination success, and how to avoid failures.



T.J. Kartes

► No-Till Classroom #12

"Boosting No-Till 'Diversity' with Alternative Crops."

Dwayne Beck (1999 No-Till Innovator) has said many times that a corn-and-soybean rotation isn't a rotation but an "oscillation." Beck has long advocated no-tillers diversify their rotations beyond staple crops to increase biodiversity, break up pest cycles and diversify income.

The longtime farm manager for Dakota Lakes Research Farm near Pierre, S.D. will share background and pointers on no-tilling and raising alternative crops such as camelina, caranata, hemp, canola and perennial crops and the value they provide in no-till operations.



Dwayne Beck

10:10 a.m. to Noon "Fire, Floods, Family and No-Till Success."

Jimmy Emmons and Loran Steinlage (2020 No-Till Innovator) have built dynamic, profitable no-till operations — but the challenges they face are very different. Emmons no-tills cash crops and raises livestock in hot, dry western Oklahoma. Steinlage uses a variety of creative planting systems to no-till several different crops in a veritable stew of different soil types in eastern Iowa.



Jimmy Emmons



Loran Steinlage

"This conference is an awesome place to increase your network. This is where we all grow..."

— Bill Darrington, Persia, Iowa

Emmons and Steinlage will use a detailed, tag-team approach to share the management tactics they've relied on to achieve no-tilled success in such differing climates — including how they incorporated cover crops in challenging environments, tamed difficult soil types, managed water infiltration issues and scaled up their operations to make them more regenerative and profitable.

Noon to 1:15 p.m. "Lunch on Your Own."

1:20 to 2:10 p.m. "Using Insects as Indicators for Plant Health."

Thomas Dykstra took a risk leaving academia and starting a private laboratory, but it placed him on a career path as an independent research consultant that led to the breaking of the insect olfactory code and determining which insects are attracted to which plants and why. From aphids to grasshoppers, insects are deemed important indicators of plant health and may be used to that end if one knows how to interpret their presence.

The Gainesville, Fla.-based entomologist will explain how relative plant health can be linked to specific insect damage, rather than grouping all insects together as mere competitors for our food. Dykstra will relate all of this to leaf brix levels and help attendees elevate their knowledge base to allow them to successfully navigate between various types of crop and soil amendments used in a no-till operation.

2:10 to 3:00 p.m. "Cover Crops Aren't Just for Fall Anymore."

Many no-tillers are satisfied seeding cover crops during or after harvest, perhaps leaving their program subject to harvest dates, weather or other challenges. But that's not good enough for Jay Baxter.

Following up on the "cliffhanger" he shared during our 2021 virtual conference, the Georgetown, Del., no-tiller will reveal the results of his new spring cover crop program where he planted corn into legumes and used the covers to feed his cash crop rather than terminating the cover. Planting methods, nutrient measurement and future plans for this practice will also be shared.



3:00 to 3:30 p.m. "Networking/Refreshment Break."

Continue those all-important hallway discussions after the afternoon general sessions and get ready for another round of no-till learning with coffee and refreshments courtesy of Nutrien.



3:30 to 4:30 p.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 #13 "Can You Grow Soil Health Without Cattle?"

One of the principles of soil health is "integrating livestock," as it tends to be an efficient way of redistributing and processing carbon and microbiology across the land. But a lack of fencing as well as the need for a different management mindset means it's often easier said than done.

So the question for many growers is whether carbon and biological diversity can be sufficiently developed without having livestock roaming the grounds.



Jeremiah Durbin

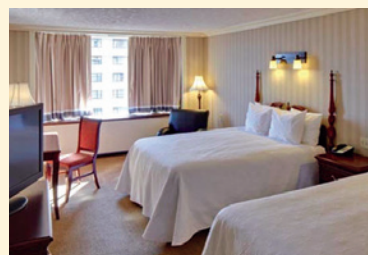
Reserve Your Room at the Galt House Hotel! **A Legendary Destination Among Hotels in Louisville**

The Galt House Hotel will be the host site for the 30th annual National No-Tillage Conference from January 4-7, 2022.

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. Benefits to staying at the host hotel include:

- Experience world-class amenities at bargain hotel prices. Deluxe guest rooms are available for \$119 per night in the West Tower, or executive suites are available for \$149 per night in the East Tower.
- Complimentary internet access in your hotel room at no additional charge.
- More networking opportunities! There are always attendees in the lobby and other public spaces of the host hotel before and after sessions, during meal breaks, etc.
- All-day access to your sleeping room during meal and refreshment breaks and following sessions.
- Reduced transit time and cost to/from sessions at the beginning and end of each day.
- Access to other hotel accommodations and amenities available only to host hotel guests.

You can reserve your rooms at the special National No-Tillage Conference rates by calling (800) 843-4258. Mention discount code 1222NOTILL when making phone reservations. Book your room online by visiting www.NoTillConference.com. **Hotel room cut-off is December 3, 2021**, or until allocated rooms are sold out.



Register today at www.NoTillConference.com or call (866) 839-8455!



We Fully Guarantee Your Satisfaction!

I've covered no-till for 50 years and picked up hundreds of new no-till techniques, tips and strategies during 29 years of the National No-Tillage Conference to share with *No-Till Farmer* readers.

That's why if — after attending the National No-Tillage Conference — you don't feel this highly intensive, information-filled no-tillage conference was 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 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 55 No-Till Roundtables and hallway conversations.

This unsurpassed guarantee ought to convince you that we're worthy of your trust and attendance at the 30th annual National No-Tillage Conference coming up Jan. 4-7, 2022.

Transfer/Refund Policy

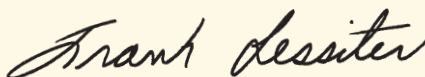
At any point prior to the event, you may request that your registration be transferred to the following year's event, or to a replacement attendee that would attend in your place.

- Your registration is 100% refundable through December 10, 2021.
- Your registration is 50% refundable December 11, 2021 through December 29, 2021.
- Sorry, no refunds after December 29, 2021.

To cancel your registration, please email *No-Till Farmer* at info@notillfarmer.com or call (866) 839-8455 or (262) 432-0388.

NOTE: In the unlikely event that the National No-Tillage Conference is cancelled in its entirety, all registrants will receive a full 100% registration refund.

See You in Louisville!



Ohio-based soil health specialist and crop consultant Jeremiah Durbin will outline how no-tillers can increase soil organic matter and carbon sequestration by focusing on the above-ground diversity and below-ground livestock.

► No-Till Classroom #14

"Tips for No-Tilling Double-Crop Soybeans Profitably."

Double-cropping soybeans after wheat can help no-tillers wring more profit in their fields, but there are management considerations that growers must take into account to make this practice a success.

Longtime Herndon, Ky., no-tillers John Young and his son Alex will share some proven tips for double-crop management, including crop variety selection, no-till planting practices and all-important residue management.

► No-Till Classroom #15

"Making Sense of Carbon Markets: How Science and Technology are Driving Farmer Profitability."

Carbon may be all the buzz. But clarity around how carbon markets work, and how no-tillers can benefit, is needed to improve participation.

Join experts from Indigo Ag, Corteva Agriscience and a farmer who has been successful with this venture to learn how carbon programs work and how farmers can directly benefit from participating. The panel will discuss who's buying carbon credits, what's driving current program requirements, and what resources and technology are available to support farmers and what soil health practices make them eligible.

► No-Till Classroom #16

"Tips and Teachable Moments from the Early Days of No-Tilling."

From the first no-tilled acre in Herndon, Ky., to a fledgling manufacturer in nearby Elkton serving a maverick market, it was a humble beginning for the practice and for Steve and Howard Martin (No-Till Innovator 1996) of Martin Industries. But through hard work and innovation the company has helped push no-till practices in every corner of the U.S. with customer-driven designs.

The Martins will share stories of their early struggles farming and how

it instilled a survival instinct in them to succeed — and how growers today can use that same mentality to succeed on their own farms. They'll share interesting tidbits about the evolution of row cleaners and closing wheels and what they learned to do or not do in certain soils, and how the Keeton seed firm made different closing wheels work.



Steve Martin



Howard Martin

► No-Till Classroom #17

"Trial Data and Tips That Show How No-Till Tobacco and Transplanted Crops Can Work."

In Kentucky and other Southern states, many growers are still using conventional tillage to raise tobacco without realizing the equipment, labor, fuel efficiencies and soil health benefits that can be gained using no-till, says Jon Anderson.

The environmental scientist at Kentucky Department of Fish and Wildlife will present an overview of the state's No-Till Tobacco Grant Project, focusing on observations, outcomes, challenges and management practices that can be utilized while no-tilling transplanted crops like tobacco.

He'll also showcase field trial data gathered throughout the 8-year project on the effects that cover crops and various tillage options had on the cash crop and soil health. No-till transplanter setups and features will also be included. The material is aimed at no-till tobacco production, but will provide useful information for growing any transplanted crop.



Jon Anderson

► No-Till Classroom #18

"Turning New Farming Technologies into a No-Till Asset."

The only thing that's constant in life is change, and there's plenty of that going on in agriculture with precision programs, automated intel-

ligence, databases and the like playing an increasing role in no-till management, says Scott Shearer.

The Ohio State University ag engineer and chair of the school's Department of Food, Agricultural and Biological Engineering will discuss the latest trends in precision and technology use and compatibility and automated equipment. Data management and what no-tillers can do to prepare for change and utilize new technology to their advantage will also be covered.



Scott Shearer

4:45 to 5:45 p.m. "20 More Outstanding No-Till Roundtables."

Select from 20 more No-Till Roundtables where attendees can ask questions, discuss challenges and contribute field-proven ideas on a specific topic. Longtime conference attendees say these "one-of-a-kind idea swaps" are worth the cost of attending the conference all by themselves. Send others from your farm to different sessions to capture even more learning.

- 21. Boosting the Bottom Line with Biosolids, Sludge
- 22. Innovative Ideas for Integrating No-Till and Livestock
- 23. Winning Ideas for No-Tilling Vegetables
- 24. Getting a Head Start on Pesky Slug Issues

- 25. Outstanding Opportunities with No-Till Organic Systems
- 26. Mantra or Myth? Stratification in No-Tilled Soils
- 27. Obliterating Obstacles to Utilizing Precision Ag Data
- 28. Making More Sense of Carbon Programs on the Market
- 29. Piling Up Profits with Double-Cropping Systems
- 30. Making Micronutrients a Tool for Bigger No-Till Yields
- 31. For John Deere No-Till Planter Owners Only
- 32. Helpful Hints for Successful Farm Succession
- 33. Teachable Moments from Cover Crop Failures
- 34. Winning Ways to Work with Annual Ryegrass
- 35. Helpful Hints for Handling Combine Residue
- 36. Exclusively For Kinze No-Till Planter Owners
- 37. Using Mycorrhizae, Humics, Soil Builders to Unlock Soil Health
- 38. Turning the Tide with Foliar Fertilizer Application Success
- 39. For No-Till Dairy Farmers Only
- 40. Fending Off Fusarium Issues in Cereal Crops

"Networking, then Dinner on Your Own"

We close out the day's events with refreshments and another opportunity to network with your fellow attendees and our conference sponsors. Then enjoy a night on the town with dinner and exploring all the attractions Louisville has to offer!

BACK BY POPULAR DEMAND!

Women for the Land Learning Circle



Where: At the 2022 National No-Tillage Conference
Who Should Attend: Female attendees, speakers and spouses
Cost: On-site Learning Circle is free to conference attendees.
Fee required for optional off-site farm tour.



Join experts from American Farmland Trust as they host Women for the Land Learning Circle at the 2022 National No-Tillage Conference. This intimate educational and idea-sharing discussion is intended for women landowners and women involved in farming operations who are interested in learning about soil health and land conservation practices. Continue the soil health learning and networking by attending an off-site, hands-on tour at a Louisville-area farm!

ALL NEW

Women for the Land Learning Circle Attendees will learn:

- ✓ How to differentiate between healthy soil and unhealthy soil
- ✓ Practical and proven methods to improve soil health
- ✓ How to measure and maintain soil health through hands-on demonstrations of the slake test, rainfall simulators and slump test

Still Another Great Spouses Program!

The Women for the Land Soil Health Learning Circle and farm tour is just one activity planned during a FREE 4-day program for spouses at this 30th annual event. In fact, these special sessions were put together by no-till spouses. To receive your copy of the spouse program, visit www.no-tillfarmer.com/nntc-faq or call (866) 839-8455 and ask for one to be dropped in the mail to you right away.



Register today at www.NoTillConference.com or call (866) 839-8455!



NEW BONUS: No-Till History Museum

Martin-Till

To commemorate 60 years of no-till history in its Kentucky birthplace, the editors of *No-Till Farmer* (celebrating 50 years this year) are bringing an extensive and expanded No-Till History Museum to The Galt House. Thanks to the support of Martin Industries, this one-of-a-kind collection is sure to spark memories and wow moments as the entire no-till community celebrates the immense progress of the last 60 years.



FRIDAY, JANUARY 7

7:30 to 8:00 a.m. "Coffee Break"

Grab coffee and refreshments courtesy of Wearparts and get ready for another day packed with insightful general sessions, interactive no-till roundtables and expert-led no-till classrooms.

wearparts
TILLAGE TOOLS
Cultivating Solutions for Growth

8:00 to 9:00 a.m. "15 More Excellent No-Till Roundtables."

Select from 15 final No-Till Roundtables where attendees can ask questions, discuss challenges and contribute field-proven ideas on a specific topic. Send others from your farm to different sessions to capture even more

41. No-Tilling Cotton and Other Specialty Crops
42. Finding a Foothold with Successful Guidance Systems
43. Taking the Fight to Tough No-Till Weeds
44. Breaking Through Barriers with No-Till Soybean Yields
45. Getting Consistent Results with Variable-Rate Fertility
46. Ideas and Strategies for Getting a Handle on Rising Input Costs
47. Biological Solutions to Better Pest Control
48. Perfect Setups, Adjustments for Better Air Seeder Performance
49. Terrific Tips for Timely Cover Crop Seeding
50. Shutting the Door on Pesky Voles, Varmints, Critters
51. Setting Up Sprayers for Super No-Till Success
52. Protecting Your Tires from Stubborn Crop Stubble
53. Helpful Hints for Higher No-Till Wheat Yields
54. Breakthrough Ideas for Beating Compaction
55. Protecting No-Tilled Fields from Seed, Soil Diseases

9:10 to 10:10 a.m. "Choose from 5 More Top-Notch No-Till Classrooms."

You've got five more top-notch no-till classrooms to choose from to help you make a big impact on your 2022 cropping operation.

► No-Till Classroom #19 "Adding Wheat and Cover Crops for No-Till Success."

There are many ways to go about building soil organic matter but they're not all equal. Nathan Brause learned this the hard way after trying to build it with corn-on-corn fodder — which he now calls "poor man's manure."

The Sulphur Springs, Ohio, no-tiller will reveal how he introduced winter wheat, diverse cover crops and planting green to feed soil biology and alleviate the workload bottlenecks he faced. His transition from "planting brown" to "planting green" with covers on every acre, and the yield effects with his diversified approach, will also be examined.



Nathan Brause

► No-Till Classroom #20

"No One Succeeds Alone: How Farmer-Led Groups Benefit Everyone."

In Wisconsin, farmers have become a driving force in the efforts to push adoption of conservation practices such as no-till, cover crops and planting green. The practical advice and demonstrations shared among peers is often cited as the primary reason such networks are successful in getting farmers to try new practices.

In this classroom session, Watertown, Wis., no-tiller Tony Peirick and Sand County Foundation field projects director, Greg Olson, talk about what it takes to start and operate farmer-led groups that get area farmers excited about implementing sustainable and regenerative farming practices. The discussion will cover funding, outreach, reporting, grant writing and more.



Tony Peirick



Greg Olson

► No-Till Classroom #21

"Driving Yield Through Tire Technology."

In his classroom session, 30-year tire veteran, equipment manufacturer consultant and founder of www.agtiretalk.com James Tuschner will discuss how no-tillers can use the latest tire innovations and management practices to reduce soil compaction and boost yields. Strategies tested by leading universities have confirmed 4% yield increases, he says.

He'll also teach tire technology methodologies that play critical roles in reducing tillage and maximizing carbon credit payments. Discussion will be focused on tire products that can pay for themselves and produce positive ROI within a year on a 1,000-acre operation.



James Tuschner

► No-Till Classroom #22

"Getting The Best Bang for Your Buck with Spoon-Feeding Nitrogen."

Nitrogen is one of the most crucial, and pricey, inputs no-tillers must manage each year, with a penchant for inefficiency — with as much as 40% of N failing to go into the crop in some cases. But Mike Starkey is using technology to increase N-use efficiency to boost yields and reduce waste.

The Brownsburg, Ind., no-tiller will share tips



Mike Starkey

"If you don't attend this conference, you're costing yourself money..."

— Nick Halmes, Plattsmouth, Neb.

and data from his multi-faceted approach that center around spoon feeding of N according to the plant's needs, including at-plant N application, sidedressing, stabilizers, aerial photography and variable-rate application, along with appropriate cover crop management.

► No-Till Classroom #23

"How to Integrate a Solar Farm on Your No-Till Operation"

Millions of acres of solar farms are coming to farm country soon. Why are they growing so fast, what do they pay and what can you grow or graze under them? Join Indiana grower Ray McCormick and listen while he sheds light on what he's learned while working with big and small solar companies on promoting soil health, conservation, double cropping and grazing within these farms. This is a must if you are considering signing a solar farm contract.



Ray McCormick

10:20 to 11:10 a.m. "Symptoms and Solutions for Vertical Nutrient Stratification."

Stratification in soils is an often-discussed topic by farmers and agronomists, each with varying perspectives. But Marion Calmer (1996 No-Till Innovator) has data from a 15-year study on surface-applied dry phosphorus and potassium showing that this practice leads to significant vertical stratification, and that annual plant growth removes nutrients from the lower profile of the root zone and deposits them on the surface.

These problems create a vertical stratification of nutrients that is far more devastating to yields than any horizontal variability of 'P&K' that is identified by grid sampling, says the Alpha, Ill., no-tiller. Calmer will use the data he's collected to provide solutions to this yield-robbing problem and explain why vertical placement of nutrients is more important than the rate.

11:10 a.m. to Noon "Creative Ways to Get Cover Crops in on Time."

For no-tillers wanting to take their cover crop system up another notch, "planting green" is often considered the next step to maximize benefits. Vincennes, Ind., no-tiller Ray McCormick (2010 No-Till Innovator) is doing this and also seeding cover crops during harvest to also maximize efficiency.

McCormick will detail how he's seeding a cover crop mix while harvesting soybeans and corn, cutting some of it for haylage or utilizing for it for grazing, and then no-tilling cash crops into the living crops in spring. He'll also share data he's collect on nitrogen, phosphorus and potassium absorbed by the cover crops and biomass produced by the mixes.

12:05 p.m. "Conference Wrap-Up and Farewell until 2023!"

4 EASY WAYS TO REGISTER

ONLINE: Register securely at the conference website: www.No-TillFarmer.com/NNTC22.

PHONE: Call (866) 839-8455 or (262) 432-0388 (with your credit card handy) to register.

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

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

YOURS FREE! \$137.75 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.

5 High-Impact Bonuses For You!



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: \$59.95



Farm Innovations

This specialty product directory serves as a year-round reference to the latest innovative products from more than 100 shortline farm machinery manufacturers and suppliers throughout the world.

Bonus Value: \$29.95



Cover Crop Strategies, Edition 2

The editors of *Cover Crop Strategies* and *No-Till Farmer* created this 32-page special report to share ideas on getting covers established, using a roller-crimper for termination, successfully integrating livestock into a cover-crop system and using covers to transition away from an overdependence on herbicides and fertilizers.

Bonus Value: \$15.95



Covering Up, Part 5: Building a More Efficient, Diverse Cover Crop System

This special 28-page report goes in-depth on the role of covers in a dynamic farm ecosystem. Kicking things off are the results of our 2021 Cover Crop Benchmark Study, detailing what a wide range of growers have to say about different topics related to all things cover crops.

Bonus Value: \$15.95



Fine Tuning No-Till Performance with Better Planter Technology

This special report will bring you practical information and tips on how to improve each and every facet of your no-till planter, from attachments to monitoring solutions and GPS systems — and everything in between.

Bonus Value: \$15.95

Total FREE "Bonus Package" Value For NNTC Attendees: \$137.75

30th Annual National No-Tillage Conference

Hosted by *No-Till Farmer*

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As part of your conference registration, you are entitled to a 1-year subscription to *No-Till Farmer*, published 12x per year. Please select and sign below if you wish to receive.

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- ☐ Add special workshop: "Turning Social Media into Your No-Till Honey Pot" (\$75)
☐ Add special workshop: "Developing Your No-Till 'Soil Sense'" (\$99)
☐ YES, I would like to receive a 1-year subscription to *No-Till Farmer* as part of my registration at no additional cost. ☐ No thank you.

Signature: _____ Date: _____
(required for free subscription)

Additional Registrant:

Name: _____

☐ Same address as primary registrant.

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☐ Add special workshop: "Developing Your No-Till 'Soil Sense'" (\$99)
☐ YES, I would like to receive a 1-year subscription to *No-Till Farmer* as part of my registration at no additional cost. ☐ No thank you.

Signature: _____ Date: _____
(required for free subscription)

*Please attach contact information for any additional attendees.

Registration Options:

Call or fax or mail back this completed form to the one of the options listed on page 11. Registration forms must be received by 12/31/21 to get the discounted pre-registration rate of \$399 (\$50.00 savings off the onsite rate).

#1 First Attendee

_____ 1 attendee x \$399 = \$ _____
(\$449 after 12/31/21)

#2 Additional Attendees

_____ attendee(s) x \$372 = \$ _____
(\$449 after 12/31/21)

#3 Bonus Workshop, Tue., Jan. 4

Limited attendance. See page 2 for more details.

"Turning Social Media into Your No-Till Honey Pot"

_____ attendee(s) x \$75 = \$ _____

#4 Bonus Workshop, Tue., Jan. 4

Limited attendance. See page 2 for more details.

"Developing Your No-Till 'Soil Sense'"

_____ attendee(s) x \$99 = \$ _____

#4 BOOK OFFER: *A History of No-Till Farming: From Maverick to Mainstream*

Enjoy a stunning and unique collection of stories, photographs, facts, and figures chronicling the history of no-till and strip-till farming. This extraordinary 416-page hardbound book takes a decade-by-decade look at the world of no-till, as seen through the eyes of those who observed the many changes in no-till since the first commercial U.S. plot in 1962.

_____ book(s) x \$47.95 = \$ _____

☐ I'd like my book(s) autographed by *No-Till Farmer* editor and author, Frank Lessiter.

Total \$ _____

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