

**Editor's  
Notebook**



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Editor &  
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**Gene-Edited Strawberries?**

Gene-edited strawberries may soon be headed for grocery store shelves. It's a joint effort by J.R. Simplot, developer of the first genetically modified potatoes, and California-based Plant Sciences Inc. The goal is strawberries that have a longer growing season and stay fresh on the shelf longer.

While growers produce more than \$2.2 billion in strawberries each year, consumers are estimated to discard more than a third due to spoilage.

Simplot expects the same market acceptance seen by the public for their gene-edited potatoes. The company has sold more than a billion pounds of them in 40 states, 4,000 supermarkets, and 9,000 restaurants.

In the case of both strawberries and potatoes, no genes are introduced from other crops or sources. Gene editing turns existing genes on or off to get the desired effect. The effort will build on a 35-year history of plant sciences to breed better strawberries. They've developed more than 50 strawberry and raspberry varieties and sell plants to growers in more than 50 countries.



**Experimental John Deere B Sold at Ohio auction in November.**  
Photo Courtesy of Equipmentfacts.com

**Rare Tracked Deere B**

A rare tracked experimental Deere B was sold in Marengo, Ohio, in early November from the estate of Harlan Wilson. It fetched \$64,900 at auction. Wilson, who was the owner of Wilson Tire in Marengo, passed away in April.



**Header has a 27 row 20-in. configuration.**  
Photo Courtesy of Bish Enterprises

**World's Largest Folding Header**

Bish Enterprises, Giltner, Neb., has come out with a massive folding corn header. The 45-ft. in-field cutting width reduces to 30 ft. when folded and weighs over 8 tons.

At a pace of 5 mph, the header can harvest around 6,150 bushels per hour in fields yielding 225 bushels per acre. Accelerating to 6 mph increases its capacity to just over 7,350 bushels per hour. Bish has been making agricultural equipment for over 40 years.

**Liberty Quotes**

"Men regard it as their right to return evil for evil and, if they cannot, feel they have lost their liberty." *Aristotle*

"The liberty of a people consists in being governed by laws which they have made themselves, under whatsoever form it be of government; the liberty of a private man, in being master of his own time and actions, as far as may consist with the laws of God and of his country." *Abraham Crawley*

"There is no room in this country for hyphenated Americanism." *Theodore Roosevelt*

"I have always in my own thought summed up individual liberty, and business liberty, and every other kind of liberty, in the phrase that is common in the sporting world, 'A free field and no favor.'" *Woodrow Wilson*

"The village atheist has the right to be heard; he has no right to be heeded. While he has a right not to have his own children indoctrinated in what he believes are false and foolish teachings, he has no right to dictate what other children may be taught." *Patrick J. Buchanan*

"When we lose the right to be different, we lose the privilege to be free." *Justice Charles Evans Hughes*

**Lena was being interviewed for a job as a maid** for a very wealthy lady, who asked her, "Do you have any religious views?"

"No," said Lena, "but I've got some nice pictures of Norway."

**During a recent password check,** Sven was found using the following password: MickeyMinniePlutoHueyLouieDewey-DonaldGoofySt.Paul.

When asked why he used such a long password, he answered, "Well, I was told that my password had to be at least eight characters long and include von capital."

**While attending a marriage seminar dealing with communication,** Ole and Lena listened to the instructor explain that it's essential that husbands and wives know each others likes and dislikes.

He asked Ole, "Can you name your wife's favorite flower?" Ole thought about it for a while then answered, "Ya, Lena always uses Pillsbury."

**Sven recently volunteered to entertain at the local care center.** He told jokes and sang songs from his native Norway for a group of residents. As he was leaving, he said, "I hope ya all get better." One elderly resident replied, "I hope you get better too."



**Agritechnica in Hanover, Germany - November 2023.**

**Covering The Shows**

We travel to many different shows to bring you the latest and greatest in ag products and innovations. In the last year I've attended the following shows:

- Lamma - Birmingham, UK
- Consumer Electronics Show - Las Vegas, Nevada
- KMOT Farm Show - Minot, North Dakota
- Southern Farm Show - Raleigh, North Carolina
- Mid-South Farm and Gin Show - Memphis, Tennessee
- World Ag Expo - Tulare, California
- National Farm Machinery Show - Louisville, Kentucky
- National Hardware Show - Las Vegas, Nevada
- Farm Progress Show - Decatur, Illinois
- Mid-America Trucking Show - Louisville, Kentucky
- Equipment Expo - Louisville, Kentucky
- SIMA - Paris, France
- Big Iron Farm Show - Fargo, North Dakota
- Amarillo Farm Show - Amarillo, Texas
- Farm Fest - Redwood Falls, Minnesota
- Dakota Fest - Mitchell, South Dakota
- Husker Harvest Days - Grand Island, Nebraska
- North American Power Show - Owatonna, Minnesota
- American Horticulture Show - Columbus, Ohio
- Farm Tech Days - Baraboo, Wisconsin
- World Dairy Expo - Madison, Wisconsin
- Ag Phd Field Day - Baltic, South Dakota
- Farm Science Review - London, Ohio
- Sunbelt Ag Expo - Moultrie, Georgia
- Agritechnica - Hanover, Germany
- Nebraska Farm Show - Lincoln, Nebraska



**Munchner Halle seats over 2,200 and features authentic German music, beer, and food.**

**All Work And No Play...**

It's not all work at the shows. The Agritechnica show grounds has a German beer hall that provides an Oktoberfest feel right at the show. The original building was built for the 1958 World Exhibition in Brussels. It had over 5,000 seats to host millions of visitors. After the exhibition, the building was rebuilt on the exhibition grounds at Hanover as the Munchner Halle and has since been regarded as the largest exhibition restaurant in the world.



**Moleaer Nanobubbles Trinity System**

**Nanobubble Technology Aids In Irrigation**

Bubbles the size of a virus or bacteria are having a big impact on high-value agriculture. They can improve water and nutrient efficiency, reduce compaction, and promote healthier roots. They can also control pathogens, promote beneficial microbial activity, and provide longer irrigation system life.

"Our goal with our nanobubble technology is to reduce costs and offset inputs with a more synergistic approach," says Warren Russell, Moleaer. "We believe the technology has real value related to soil challenges. It offers a multi-beneficial approach."

Unlike conventional oxygenation bubbles that rise to the surface, nanobubbles stay in suspension. Their negative charge reduces the surface tension of irrigation water, improving soil penetration and infiltration.

In one field study in California pistachios, the grower reported more than \$200/acre/year savings and direct benefits.

"Some growers use nanobubbles to maintain nutrients in suspension, such as phosphates, which tend to precipitate out," says Russell. "We have customers who report reducing nutrient inputs by as much as 25 percent."

Moleaer has been applying its nanobubble technology to water and soil challenges in 55 countries. It already has 3,000 installations around the world.

The company has a wide range of products for everything from restoring lake and pond health to wastewater treatment to irrigating high-value crops and, more recently, irrigated commodity crops.

Their Trinity line of nanobubble generators is a simple-to-install, inline device with no moving parts. It comes in multiple models that scale up to 4,000 gpm with only 2-psi head-loss once installed. It injects high concentrations of nanobubbles at the most efficient rate on the market.

Other products include the Lotus, designed for smaller growers with a flow of less than 2,000 gal. per day. The Kingfisher design is for all types of ponds, from small Koi ponds to small lakes or larger ponds.

The nanobubble generators can be used with ambient air or with supplementary oxygen. "What we use depends on the specific needs of the crop," says Russell. "In higher value crops, where the emphasis is on improving vegetative growth at key stages like flowering and fruit development, we may supplement with oxygen."

Moleaer products are available from distributors found on their website. "We work with different distributors in different markets from design and build greenhouses to irrigation dealers and distributors," says Russell. "If there isn't a distributor in a given area, we support the customer directly."

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