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*Friday Notes* is designed to enhance communication among various agricultural sectors, educators, students, and the public who are interested in a variety of plant, animal, food, and environmental issues. *Friday Notes* advocates the pursuit of credible, unbiased, science-based information. Material contained in linked articles is from the original authors and does not necessarily reflect the views of CAST.

In This Issue.... Animal Agriculture News Food Science & Safety News Plant & Environmental News International News General Interest News

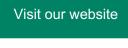
#### Announcements

The Poultry Science Association will honor their 2023 award recipients at their <u>annual awards</u> <u>celebration in July</u>, with many recipients being associated with CAST University Members.

#### **CAST College Corner**

Purdue University offers cutting edge weed research tour in recent field day.

#### **CAST Social Media**





CAST <u>welcomes ideas</u> for future publications and projects.

### June 9, 2023

## Soil Health for the Future

Soil is the foundation for all life and is essential for earth and human health. Researchers worldwide are coming together to explore the future of soil health to support critical industries and human health. This includes the National Academies of Sciences work group which is exploring the <u>linkages</u> <u>between soil health and human</u> <u>health.</u>



The University of Massachusetts Amherst found that 40% of cropland in the Midwest uses no-till to decrease erosion and extend soil fertility in the future. Practices such as no-till, cover crops, and soil moisture management are all ways that producers are working toward healthy soils for the future.

Scientists worldwide have also come together to advocate for soil microbiomes in the One Health holistic approach. This would include making adjustments to systems while factoring in the soil microbiomes as an important part of the overall systems. Bringing soils into the One Health approach acknowledges the reality, that sustainability can not be achieved without healthy soils.

Check out <u>CAST Agriculture and Microbiome</u> <u>Publication</u> to learn more about this topic.

### **News and Views**

**USDA Updates:** The USDA (1) made a statement regarding the <u>US request for a dispute settlement on</u> <u>Mexico's Agricultural Biotechnology Measures.</u> (2) <u>Iowa State University</u> researchers have been awarded a \$649,000 USDA grant to study the intricacies of cereal rye crops. (3) <u>NIFA invests \$9.5 million</u> to promote innovation in animal reporduction

### Far Side of the Barn

**Robot Chef:** University of Cambridge researchers have trained a <u>robot chef to learn from</u> watching cooking videos online.



# **CAST Updates**

## **CAST is Hiring!**



Would you—or someone you know—be interested in joining CAST's communications team?

CAST is currently seeking a Communications Manager who will be responsible for planning, implementing, and evaluating effective CAST communications efforts. This includes but is not limited to, overseeing

CAST's weekly e-newsletter *Friday Notes*, website, blogs, press releases, and social media platforms. This is a full-time onsite (in Ames, Iowa), hybrid, or remote position. For more information, visit <u>our website</u>, or contact Anne Owens, Director of Council Operations, at <u>aowens@cast-science.org</u>.

Please help us spread the word by sharing this opportunity within your networks and organizations!

## **CAST Impact Reports on Publications**

Impact data for each CAST publication is tracked and reported at 6, 12, 18, and 24 months after the paper is released. At two years, the impact report is considered "final" and we no longer continue tracking unless there is a special request. Categories that are currently being tracked are release/rollout, press release, comments received, follow-on activities, direct and indirect paper distribution, articles and web mentions, paper citations, and social media.

Here are some recently updated impact reports:

- The Role of Agricultural Science and Technology in Climate 21 Project
- <u>Goals. Strengths. and Limitations Governing the Use of Life Cycle Assessment (LCA) in</u> <u>Food and Agriculture</u>
- <u>Gains Foregone by Going GMO Free: Potential Impacts on Consumers, the</u> <u>Environment, and Agricultural Producers</u>

# Animal Agriculture and Environmental News

**Fuel:** <u>Michigan dairy producers</u> work to find new ways to turn milk by-products into ethanol to be used by drivers in the state.

Cattle: <u>A Texas feedlot loses 4,000 cattle</u> after, the record "100-year" flooding event last month.

**Circovirus:** <u>Merck animal health release a new</u> <u>vaccine for Porcine circovirus</u>, that has caused worldwide epidemics and majorly affected the pork industry for the past 20 years.



New robotic technology is being tested as a predator deterrent in livestock systems, in an attempt to minimize human-wildlife conflict.

# Food Science and Safety News

**Milk:** <u>Midwest dairy farmers have been forced to</u> <u>dump milk</u> after the processing facility reaches production capacity.

Plant-based dairy: A recent study has shown that <u>almond and nut-based yogurt has higher</u> <u>nutritional value than dairy-based yogurt</u>. (corrected from June 2nd edition)

**Nutrition:** <u>Precise nutrition recommendations</u> for Americans could impact the future of food production.



Food safety is especially important on hot summer days. Check out <u>these guidelines</u> to keep your family and friends safe this summer.

# **Plant Agriculture and Environmental News**

**Plastics:** <u>A recent study reviews the risks and</u> <u>impacts of agricultural plastics</u>, on human health, soil, and the environment.

**CRISPR:** Europe's <u>opposition to CRISPR</u> <u>technology</u> softens, as politicians look to the future of food security.

Almonds: <u>California almond growers evaluate what</u> <u>regenerative agriculture</u> could mean for them while focusing on soil health.



<u>New Al technology</u> is being used to kill weeds and harvest crops on American Farms.

# International News

**China:** <u>Record high temperatures and</u> <u>flooding</u> affect crops and livestock, raising food security concerns.

**Europe:** <u>EU exempts a new gene modification</u> <u>technique</u> from existing rules, banning genetically modified organisms.

**Mexico:** <u>Mexico counters U.S. dispute to GM</u> <u>corn</u> regulations announced by the Mexican Government earlier this year.

## **General Interest**



**Pollinators:** Researchers have shown that <u>nighttime pollinators may be just as</u> <u>important</u> as pollinators active during the day.



Ukraine fears <u>losing</u> <u>millions of tons of crops</u> after dam collapse. Threats to Agriculture: Cyberattacks are a true danger in the digital era, and <u>agriculture is one of the greatest targets.</u>



<u>The USDA ramps up urban</u> <u>agriculture funding</u>, using the People's Garden in Washington, D.C. as a shinning example.

### **Photo Credits**

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Ukraine flooding photo from REUTERS/Vladyslav Musiienko

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- Energy, & Resources-Agricultural Management
- \* American Dairy Science Association
- \* American Farm Bureau Federation
- \* American Meat Science Association
- \* American Meteorological Society, Committee on
- Agricultural and Forest Meteorology
- \* American Seed Trade Association
- \* American Society of Agricultural and Biological Engineers
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- \* CropLife America
- \* Crop Science Society of America
- \* Global Teach Ag Network
- \* Innovation Center for U.S. Dairy
- \* Iowa State University

- \* Minor Use Foundation, Inc.
- \* Mississippi State University
- \* National Cattlemen's Beef Association, a Contractor to the Beef Checkoff
- \* National Corn Growers Association/Iowa Corn
- **Promotion Board**
- \* National Milk Producers Federation
- \* National Pork Board
- \* National Turkey Federation
- \* North Central Weed Science Society
- \* Northeastern Weed Science Society
- \*Nutrients
- \* Penn State University
- \* Poultry Science Association
- \* Rural Sociological Society
- \* Society for In Vitro Biology
- \* Society for Range Management
- \* Soil Science Society of America
- \* Syngenta Crop Protection
- \* The Fertilizer Institute
- \* The Mosaic Company
- \* Tuskegee University
- \* United Soybean Board
- \* University of Nevada-Reno
- \* U.S. Poultry and Egg Association
- \* Weed Science Society of America
- \* Western Society of Weed Science

CAST, through its network of experts, assembles, interprets, and communicates credible, balanced, sciencebased information to policymakers, the media, the private sector, and the public.

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- \* Texas A&M University College of Ag & Life Sciences
- \* The Ohio State University
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