

Having trouble viewing this email? [Click here](#)

Friday Notes

Council for Agricultural Science and Technology



The Science Source for Food, Agricultural, and Environmental Issues

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..... Click to Read

[More on the BCCA and CAST's Publication Rollout--P. 2](#)

[Animal Agriculture News](#)

[Food Science and Safety News](#)

[Plant and Environment News](#)

[International News](#)

[General Interest News](#)

Have a Look



From a lizard hitching a ride on an iguana to a newborn cowboy baby, the winning images of the [Smithsonian magazine photo contest](#) are stunning.



Earth Day--April 22

This year's Earth Day theme focuses on the [decline of certain species](#) due to human activity.

Science Talks

National Hog Farmer recently launched "Science Talks," a [webinar series featuring veterinarians](#) from Kansas State and Iowa State. The first episode will air April 24.

Pork Scholarships

The Pork Checkoff awarded 20 [scholarships to college students](#) around the United States--based

April 19, 2019

CAST Events in D.C.

Presentations, announcements, and meetings promote agriculture and science

During an exciting week for agriculture, CAST announced that [Dr. Frank Mitloehner \(UC-Davis\) is the 2019 Borlaug CAST Communication Award honoree](#), and the organization also rolled out its newest issue paper--a science-based examination of water quality and the impacts of agricultural nutrients. Both events occurred in the nation's capital, and adding to the buzz, CAST board members gathered for the yearly spring meeting.



Frank Mitloehner

The annual BCCA announcement program has become an anticipated event celebrating the need for effective communication in the world of agriculture. See page two below for more about the speech by [2018 BCCA recipient Dr. Marty Matlock](#) (University of Arkansas) and the subsequent announcement of the 2019 BCCA winner.



Heidi Peterson

On April 15, the day before the BCCA announcement, Dr. Heidi Peterson presented highlights of CAST's new issue paper, [Reducing the Impacts of Agricultural Nutrients on Water Quality across a Changing Landscape](#), at three D.C. venues--the Longworth House Office Building, the Russell Senate Office Building, and the Fertilizer Institute. See page two below for more.

News and Views

Trade Issues: A study finds that the new North American trade deal (based on old NAFTA) would provide a [very modest boost](#) to the economy, and it could [affect U.S. auto sales](#). Also, the [World Trade Organization ruled](#) that China has administered its tariff-rate quotas for wheat, corn, and rice inconsistently with its WTO commitments.

on scholastic merit, leadership activities, and involvement in the pork production industry.



Programs of Distinction

The University of Missouri established criteria for its

"[Programs of Distinction](#)"--research, teaching, and extension programs that are nationally and internationally recognized.

Microbiomics

Kansas State University will host a National Academies of Sciences, Engineering, and Medicine event titled "[Harnessing Soil and Plant](#)

[Microbiomics for Agriculture: Hype, Hope and Reality](#)" April 23-24.

Science Studies

This University of Kentucky graduate student won a 2019 [research award from the U.S. Department of Energy](#) as part of a STEM initiative.

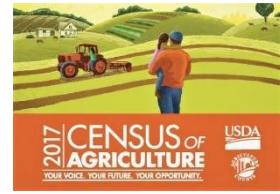
Send in Ideas

CAST [welcomes suggestions](#) for future publications and projects.

CAST Social Media



Ag Census Analyses: Harvest Public Broadcasting [looks at the USDA census](#) about agriculture, and the Farm Bureau organization [also examines the report](#).



Trade Talk Glitch? The American Soybean Association says it is [disappointed with a European Union decision](#) to exclude agriculture from negotiations regarding an EU-U.S. Free Trade Agreement.

Grain Projections: The USDA [lowered its export projections for corn and wheat](#) in the 2018-2019 harvest season amid slumping grain volumes and Midwest rail operations coping with record flooding.

News from the Far Side of the Barn

Playing With Trash

([video](#)): Plastic pollution in the ocean is a serious issue, but [this dolphin](#) made it into a game.



Pony on Ice: Russian researchers found liquid blood and urine inside the [frozen carcass of a foal that died 42,000 years ago](#) in Siberia.

Some [pet owners in China are going all out](#) for their pampered animals--although this dog does not seem thrilled by a session of acupuncture.

Get Lost! (video): A dugong (sea cow) apparently [does not want to be bothered](#) by a couple of irritating fish.

A Science-based Research Publication and a Respected Ag-science Communicator



Reducing the Impacts of Agricultural Nutrients on Water Quality across a Changing Landscape

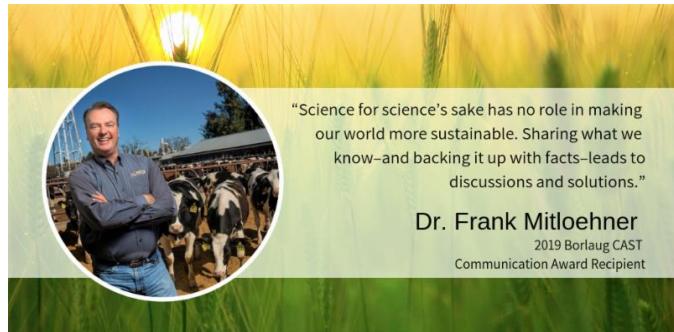
On April 15 in Washington, D.C., Heidi Peterson gave three presentations to provide an overview of the processes, conservation practices, and programs that influence the impact of agriculture on surface and groundwater quality. Peterson currently serves as the Phosphorus Program Director for the International Plant Nutrition Institute, and she is recognized for her expertise regarding water management and agriculture.

Check here for [free access to the full paper](#) and here for the [Ag quickCAST one-page summary](#).

Frank Mitloehner: 2019 BCCA Honoree

This year's [Borlaug CAST Communication Award](#) announcement occurred at the USDA Whitten Patio, and Deputy Under Secretary Scott Hutchins welcomed attendees with insights about the agriculture department and CAST's role in producing credible information for policymakers and the public. CAST EVP Kent Schescke then introduced the guest speaker, Dr. Marty Matlock--renowned for his research and insights about food production, sustainability, and global trends. Matlock spoke about "The Promise of Prosperity from the Land in the 21st Century" and then answered questions from the audience.

CAST President Dr. Gabe Middleton (American Association of Bovine Practitioners) spoke about the BCCA selection process and then announced this year's recipient. A professor and specialist at UC-Davis, [Frank Mitloehner is well respected for his ability to communicate](#) scientific information about livestock agriculture and the impacts on climate. He believes scientists should share what they know, and along with doing hundreds of presentations and media appearances, Mitloehner maintains an active presence on social media.



Kellie Bray

The Borlaug CAST Communication Award is sponsored by the CropLife Foundation, and the event concluded with remarks from Kellie Bray (CropLife America Chief of Staff).



Gabe Middleton

[Click here to access a video recording of the full BCCA presentation](#). Dr. Matlock's speech begins at the 12:45 mark and the BCCA announcement comes at the 40:11 mark.

Friday Notes News Categories

Photos courtesy of the Agricultural Research Service (top masthead); TopLatest News (globe at right). P. 1 lemur pic from digg.com, Mitloehner photo from ucdavis.edu, Peterson photo from Sally Flis, tiger logo from mizzou.edu, and dog pic from youtube.com. P. 2 pics from Sally Flis and Melissa Sly, Mitloehner graphic from ucdavis.edu. Animal Sec. pig graphic from toxel.com and llama pic from weather.com. Food Sec. apple pic from ctv.ca.jpg and meat pic from meats_2.png. Plant Sec. compost pic from pinterest.com and plant cartoon from pathslesstravelled.com. Inter.



Sec. Brazil pic from bridge.edu and Fukushima photo from fukuleaks.org. Gen. Sec. farmer photo from farmjournal.com and tractor pic from agweb.com. Unless otherwise noted, photos courtesy of the USDA Agricultural Research Service.

Animal Agriculture and Environmental News

Consider the Whole Picture (video): Frank Mitloehner--2019 BCCA honoree--says conclusions about animal sustainability should consider the whole chain of events. According to him, [animal agriculture is getting slighted](#) with faulty analyses.

An Alternate Picture (see above): This article looks at a [different view about animal ag](#)--and \$50 burgers. Many livestock experts might disagree with the "picture" this opinion paints.

Promoting Poultry (video): As this website and video demonstrate, the [American Association of Avian Pathologists](#) promotes scientific knowledge to enhance the health, well-being, and productivity of poultry to provide safe and abundant food for the world.

Cows and Calves: In this article, veterinarians provide information about [handling difficult calving situations](#).

African Swine Fever in Asia: According to this report, African swine fever has [spread to every province in mainland China](#) and will soon affect an estimated 150 to 200 million pigs. Vietnam is also suffering losses.

Searching for Solutions: Members of the sheep and goat department of Texas A&M are using technology to address the diseases and [concerns prevalent in the sheep and goat industry](#) today.



Llama Disappearing Act: The llama population in the United States [appears to be shrinking](#), according to the recent USDA Agriculture Census.

Sniffing Out Cancer: Research that supports using the superior snouts of [dogs for cancer screening](#) was presented at the annual Experimental Biology 2019 meeting in Florida.



All Dead, Mostly Dead, Slightly Alive?

In [an experiment that might raise ethical questions](#), the brains of dead pigs have been "somewhat revived" by Yale scientists.

Food Science and Safety News

Got Bugs? (video): If you think the strawberry Yoplait yogurt you're eating is red from the fruit--think again. [The color comes from squashed bugs.](#)

Food Science Insights (video): The new North Carolina State series--"[A Day in the Life](#)"--kicks off with food science senior Monica Richmond as she takes us around campus.

Future of Food Research: A National Academies of Sciences, Engineering, and Medicine study looks at five breakthroughs in [efforts to advance food and agriculture research](#).

Fuel for Athletes: This university report suggests new international guidelines for [protein intake in track and field athletes](#).

Fighting Obesity: This Appalachian town was once called "America's fattest city." Here's [how it slimmed down](#). BTW, there's no quick fix.

Labeling Changes? The USDA's Food Safety and Inspection



Service announced [proposals to amend labeling regulations](#) in an effort to remove duplicative net weight and net content requirements for certain meat and poultry packages.

Meat Consumption Benefits? Studies about the health benefits or hazards of meat consumption are numerous. This report found that people who eat meat and dairy products [in moderation have increased heart health and longevity](#).

Meat Consumption Negatives? This research says replacing red meat with healthy [plant proteins led to decreased risks](#) for cardiovascular disease. As with all studies, methods, variables, and interpretation are important considerations.



Some current trends downplay fruit intake, but this article says [thoughtful consumption of fruit and 100% juices can provide a variety of health benefits](#).

Plant Agriculture and Environmental News

Hey Students--Even Cotton Bales Get Graded (video): Find out about the history of cotton, varied production methods, and the [processes used in textile factories](#).

Covering It Up: The USDA Ag Census indicates [cover crop use is increasing](#) approximately 50% nationwide--and the credit is going to a variety of groups.

Clean Energy Jobs Up: The Midwest [added more than 28,000 clean energy jobs in 2018](#), according to a report that looks at employment in various energy sectors.

Flooding Affects Soil: This report says that [long after the rains stop](#), floodwaters continue to impact soil's physical, chemical, and biological properties. Also, get a free download of CAST's new issue paper regarding the [impacts of agricultural nutrients on water quality](#).



Compost Happens: This story includes advice from experts about [compost use in gardens and flower beds](#).



In the Fight: This expert [looks at herbicide-resistant super weeds](#) such as Palmer amaranth--and how control methods include varied chemicals, cover crops, and other techniques.

Microbes to the Rescue? An Iowa State researcher identified [microbes that may reduce allergy-like reactions](#) some people have to aged cheese.

International News

Restoring Cuban Farmland: Cuba's "Agroecology Queen" is building sustainable organic farming practices for Cuba's people to ensure self-sufficiency. [Read the Q&A here.](#)

Biotech Hurdles? According to this commentary, China's approval process for biotech crops is beset by [regulatory hurdles and delays](#) that hinder U.S. companies and farmers.

Biotech Regs (related to above): [Check out this CAST Commentary](#)--*The Impact of Asynchronous Approvals for Biotech Crops on Agricultural Sustainability, Trade, and Innovation.*

Fancy Hog Accommodations: This article takes a detailed look at a modern pig farm in Thailand--and some say it is like a [porcine five-star hotel](#).



Food from a Nuke Zone: The *Dairy Reporter* provides coverage of Japan's [food strategy regarding the Fukushima radioactive zone](#)--and several other ag-related topics.

Fresh Eggs Make a Big Difference: FAO's [poultry intervention has supplied chickens, feed, and housing in northeastern Nigeria.](#)



According to this report, these are [six key things we need to know](#) about agriculture in Brazil.

General Interest News



From Scarcity to Security (video): This Chicago Council on Global Affairs clip looks at water issues and the potential for severe economic, political, and humanitarian [consequences if water management is neglected.](#)

Rangeland Specialist: This researcher-consultant uses the expertise she gained at the University of Nevada-Reno as she spends [time in the field on horseback](#), working with ranchers in her position as rangeland consultant.

Reward for Hard Work: Three years of [dedication, academic excellence, and ambition](#) earned this University of Arkansas entomology graduate student the \$15,000 Scholar Award from the Philanthropic Education Organization.



World Food Prize Youth: Eighteen high school students chosen as Borlaug Scholars were participants in the third annual [World Food Prize Mississippi Youth Institute](#) at Mississippi State University.

Freeze Frame: Check out Mark Parker's list of the [top 10 topics](#) farmers post as photos on social media--including stuck tractors and goats draped with underwear.

In Case You Debate about the Anthropocene Era This Weekend: Researchers are going to decide [whether or not Earth entered the Anthropocene in the year 1950](#), and that could mean that human activities, not natural processes, are the dominant driver of change on Earth's surface.

CAST Information

Check out CAST's page at the [YouTube site](#) to view highly regarded ag-science videos about probiotics, food safety, and water issues--or the latest video dealing with proposed mandatory labeling of GMO food items.



CAST provides Friday Notes as a benefit to its members. Please do not forward, edit, copy, or distribute the Notes in any form to nonmembers without the express permission of the CAST Executive Vice President Kent Schescke (kschescke@cast-science.org). Instead, please encourage your colleagues to join CAST and thereby become eligible for all membership benefits. Contact Melissa Sly at 515-292-2125, ext. 232 or msly@cast-science.org, or [CLICK HERE](#) for CAST membership information.

Societies, Companies, and Nonprofit Organizations Serving on the CAST Board of Representatives

- * Agricultural & Applied Economics Association
- * American Association of Avian Pathologists
- * American Association of Bovine Practitioners
- * American Bar Association, Section of Environment, 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 for Nutrition Nutritional Sciences Council
- * American Society of Agricultural and Biological Engineers
- * American Society of Agronomy
- * American Society of Animal Science

This farmer's Facebook site [provides a glimpse into farming](#)--and it gives an opportunity for farmers to share about the many hats they wear every day with their peers.



- * American Society of Plant Biologists
- * American Veterinary Medical Association
- * Aquatic Plant Management Society
- * BASF Corporation
- * Cal Poly State University
- * Corteva Agriscience, Agriculture Division of DowDuPont
- * CropLife America
- * Crop Science Society of America
- * Entomological Society of America
- * Innovation Center for U.S. Dairy
- * Land O'Lakes
- * Bayer
- * 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
- * North Carolina Biotechnology Center
- * North Central Weed Science Society
- * Northeastern Weed Science Society
- * Poultry Science Association
- * Rural Sociological Society
- * Society for In Vitro Biology
- * Soil Science Society of America
- * Syngenta Crop Protection
- * The Fertilizer Institute
- * Tuskegee University
- * Tyson Foods
- * United Soybean Board
- * University of Nevada-Reno
- * Weed Science Society of America
- * Western Society of Weed Science

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

Members of CAST's Education Program

- * Cal Poly-San Luis Obispo
- * Cornell University
- * Iowa State University
- * Kansas State University
- * Mississippi State University
- * North Carolina Agricultural and Technical State University
- * North Carolina State University
- * Purdue University
- * Texas A&M University College of Ag & Life Sciences
- * The Ohio State University
- * Tuskegee University
- * University of Arkansas System Division of Agriculture
- * University of California-Davis
- * University of Florida Institute of Food and Agricultural Sciences
- * University of Kentucky
- * University of Missouri-Columbia
- * University of Nebraska Agricultural Research Division
- * University of Nevada-Reno College of Agriculture, Biotechnology and Natural Resources



Dan Gogerty (Managing Communications Editor)
 Kimberly Nelson (Communications and Social Media Specialist)
 The Council for Agricultural Science and Technology
 4420 West Lincoln Way
 Ames, Iowa 50014-3447
 Phone: 515-292-2125, ext. 222 (Dan) and 230 (Kimberly)
 E-mail: dgogerty@cast-science.org and knelson@cast-science.org



*** With assistance from Carol Gostele (Managing Scientific Editor)*