



CAST Commentary QTA2021-1
***The Role of Agricultural
 Science and Technology
 in Climate 21 Project
 Implementation***

Released June 28, 2021

Chair: David Baltensperger, Texas A&M University; 19-member task force

Release/Rollout

CAST Commentary, “The Role of Agricultural Science and Technology in Climate 21 Project Implementation,” was released on June 28, 2021, and highlighted through a webinar on June 29. Task force chair, Dr. David Baltensperger, presented an overview of the paper then lead authors for the five essay topics presented highlights followed by a Q&A session. The panel included Marty Matlock, Juan Tricarico, Alex Thomasson, Zhengxia Dou, and Debbie Reed. There were 544 registrants for the webinar with 218 attendees.

- [Link to commentary, Ag quickCAST, and webinar video](#)
- [Webinar Video](#) – 394 views as of December 13, 2022

In-kind Contributions: 270 volunteer hours; \$19,980 monetary value

Press Release (results two weeks after release)

- Distributed through [Constant Contact](#) and the [CAST website](#).
- Press release went to 7,850 e-contacts resulting in 1,630 opens
- 174 views of the press release from the CAST website as of July 12, 2021.
- A sampling of sites where the press release was picked up: The Dairy Alliance, Ecosystem Services Market Consortium, U.S. Sustainability, Growing American, Field to Market
- July 6, 2021, **Iowa State University College of Agriculture and Life Sciences, AgOnline**, Issue 1162, <https://www.cals.iastate.edu/news/agonline/issue/1162> (Link to Press Release)

Webinar Pre-promotion and Recording Links

2021 Hill Seminar Series – **National Coalition for Food and Agricultural Research (NCFAR)** - <https://www.ncfar.org/Education/Webinars> (Link to Webinar recording, and publication page)

Ecosystem Services Market Consortium – **Presentations and Webinars** – Link to Publication Page post launch <https://ecosystemservesmarket.org/resources/presentations-webinars/>

American Society of Agronomy – June 23, 2021 Science Policy Report (Link to webinar registration)

This report last updated 12/13/2022

July 4, 2021, KZ line, -- <https://kzread.info/dash/cast-webinar-the-role-of-agricultural-science-and-technology-in-climate-21-project-implementation/IHt6srWgeMXPj8o.html> (Link to recording)

July 12, 2021 - <https://cupidshealth.com/cast-webinar-the-role-of-agricultural-science-and-technology-in-climate-21-project-implementation/>

Follow-On Activities

University of Minnesota Swine Extension, Swine & U Column, *Food supply Chain and Waste in Climate Mitigation*, November 15, 2021, Dr. Allison Thomson co-authors a blog as part of the larger paper. <https://blog-swine.extension.umn.edu/2021/11/swine-u-column-food-supply-chain-and.html>

Paper Distribution

Paper distribution (print and online access from CAST website) 6 months after release – 3,641

July 19, 2021 (450 copies distributed electronically) – An email message with the Commentary attached was distributed to approximately 50 key leaders/administrators at the USDA under the signatures of David D. Baltensperger, CAST President; Gary A. Thompson, CAST Board of Trustees Chair; and Kent G. Schescke, CAST Executive Vice President & CEO. Then a message with the Commentary attached was distributed to approximately 400 USDA employees under Kent Schescke's signatures.

Indirect Paper Distribution

Semantic Scholar, <https://www.semanticscholar.org/paper/The-Role-of-Agricultural-Science-and-Technology-in-Yu/3a5e2dacb84a8c11929a60d65149a51db72679b1>

Feed Strategy, <https://www.feedstrategy.com/wp-content/uploads/2022/02/Climate-21.pdf>

Iowa State University CALS, July 6, 2021, <https://www.cals.iastate.edu/news/agonline/issue/1162>

North Carolina State University CALS News, *Climate Change and Agriculture*, <https://cals.ncsu.edu/news/climate-change-and-agriculture/>

American Society of Animal Science, <https://www.asas.org/taking-stock/taking-stock/2021/07/29/the-role-of-agricultural-science-and-technology-in-climate-21-project-implementation-published>

Ecosystem Services Market Consortium, <https://ecosystems-services-market.org/resources/presentations-webinars/>

STI Policy Outlook, Agricultural Science and Technology, Smart Agriculture, https://outlook-stpi-narl-org-tw.translate.google/index/tdop/detail?tdpid=4b1141007c626710017c7751d42b33b2&_x_tr_sl=zh-TW&_x_tr_tl=en&_x_tr_hl=en&_x_tr_pto=sc

Articles and Web Mentions

June 29, 2021, **The Dairy Alliance**, <https://thedairyalliance.com/newsroom/cast-releases-new-commentary-on-the-role-of-agricultural-science-and-technology-in-climate-21-project-implementation/>

July 1, 2021, **Crop Life America**, *Reports*, <https://www.croplifeamerica.org/reports> (Link to publication)

This report last updated 12/13/2022

July 6, 2021: During this morning's "**Agribusiness Report**" on TV Channel 13, David Geiger mentioned our publication. No visuals, but he stated something about "The Council for Agricultural Science and Technology paper"... "experts say agriculture can help with climate challenges".... And maybe a bit more. About a minute.

July 6, 2021, **Iowa State University CALS**, <https://www.cals.iastate.edu/news/agonline/issue/1162>

July 14, 2021 – **U.S. Sustainability**, *CAST Commentary Considers Role of Ag Science and Tech in Climate Mitigation* (Article, link to press release and commentary)

<https://thesustainabilityalliance.us/cast-commentary-considers-role-of-ag-tech-in-climate-mitigation/>

Newsletter: <https://mailchi.mp/5213827cf068/us-eu-trade-means-resolving-difficult-ag-issues-says-usda-secretary-vilsack-6513108?e=6ed34f4a42>

July 19, 2021 – **FASS**, *Science Policy*, (Link to Publication Page, <https://www.fass.org/Science-Policy/2021-June>)

August 24, 2021 – **Farms, Food and You** podcast – *Climate Change and North Carolina Agriculture* podcast (Article listed as resource <https://podcasts.apple.com/hu/podcast/climate-change-and-north-carolina-agriculture/id1515355005?i=1000532972894>)

September 28, 2021 and November 15, 2021 – **The Land** (September) and **University of Minnesota Extension – Swine Extension** (November) – *Swine & U Column: Food Supply Chain and Waste in Climate Mitigation* (Blog article as part of the larger paper, link to publication page, press release, article, webinar and commentary)

September - https://www.thelandonline.com/news/swine-u-food-supply-chain-and-waste-in-climate-mitigation/article_bee2a5a6-1a50-11ec-b2a3-0f17f8081ccb.html

November - <https://blog-swine.extension.umn.edu/2021/11/swine-u-column-food-supply-chain-and.html>

October 7, 2021, **Illinois Soybean Association – Weekly Update**, <https://www.ilsoy.org/isa-fast-5-100721> (Link to publication page)

December 29, 2021, **Feedstuffs** and **National Hog Farmer**, *Upcycled animal feed: Sustainable solution to food waste problem*,

Feedstuffs, <https://www.feedstuffs.com/livestock-poultry/upcycled-animal-feed-sustainable-solution-food-waste-problem>

National Hog Farmer, <https://www.nationalhogfarmer.com/feed/upcycled-animal-feed-sustainable-solution-food-waste-problem> (Link to publication)

Citations

Towards smart farming solutions in the U.S. and South Korea: A comparison of the current status, **Geography and Sustainability**, December 2021 <https://www.sciencedirect.com/science/article/pii/S2666683921000778>

New Bolton Center: A living laboratory for protecting water quality and pursuing sustainability, **The Water Center University of Pennsylvania**, May 10, 2021 <https://watercenter.sas.upenn.edu/new-bolton-center-a-living-laboratory-for-protecting-water-quality-and-pursuing-sustainability/>

Reducing food's resource and climate footprints via food waste upcycling, **Research Square**, March 10, 2022, <https://www.researchsquare.com/article/rs-1404610/latest.pdf>

This report last updated 12/13/2022

Triple Bottom-Line Evaluation of the Production of Animal Feed from Food Waste: A Life Cycle Assessment, Waste and Biomass Valorization, August 18, 2022, <https://link.springer.com/article/10.1007/s12649-022-01914-7>

Chapter: Incentivizing Soil Organic Carbon Management in Terrestrial Biomes of the United States of America, Soil Organic Carbon Sequestration in Terrestrial Biomes of the United States, April 5, 2022, https://link.springer.com/chapter/10.1007/978-3-030-95193-1_5

Social Media

Twitter—

CAST @CASTagScience May 28, 2021

<https://twitter.com/CASTagScience/status/1398280438649606148>

CAST @CASTagScience June 15, 2021

<https://twitter.com/CASTagScience/status/1404804698012622855>

1 retweet, 2 likes

C-FARE @CFAREcon June 21, 2021

<https://twitter.com/CFAREcon/status/1406964104967884804>

2 retweets, 2 likes

CAST @CASTagScience June 22, 2021

<https://twitter.com/CASTagScience/status/1407332574637264905>

1 like

CAST @CASTagScience June 26, 2021

<https://twitter.com/CASTagScience/status/1408802611273342980>

1 retweet, 4 likes

Pamela (Pam) Marrone @pammarrone June 28, 2021

<https://twitter.com/pammarrone/status/1409610506025914370>

Ecosystem Services Market Consortium @MarketEcosystem June 28, 2021

<https://twitter.com/MarketEcosystem/status/1409555652041662464>

1 retweet, 1 like

CAST @CASTagScience June 28, 2021

<https://twitter.com/CASTagScience/status/1409523275013709825>

2 retweets, 3 likes

CAST @CASTagScience June 29, 2021

<https://twitter.com/CASTagScience/status/1409886900350078978>

1 retweet

This report last updated 12/13/2022

CAST @CASTagScience June 30, 2021

<https://twitter.com/CASTagScience/status/1410276967459573760>

1 like

CAST @CASTagScience July 28, 2021

<https://twitter.com/CASTagScience/status/1420389856044331012>

1 retweet

Facebook—

CAST May 28, 2021

<https://www.facebook.com/CASTagScience/posts/4081793875248711>

CAST June 15, 2021

<https://www.facebook.com/CASTagScience/photos/a.477568575671277/4132501236844641>

3 likes, 1 share

CAST June 22, 2021

<https://www.facebook.com/CASTagScience/photos/a.477568575671277/4151234594971305>

2 likes, 1 share

CAST June 26, 2021

<https://www.facebook.com/CASTagScience/photos/a.477568575671277/4162707767157321>

4 likes, 1 share

CAST June 28, 2021

<https://www.facebook.com/CASTagScience/photos/a.477568575671277/4168031169958314>

5 reactions, 1 comment, 1 share

CAST June 29, 2021

<https://www.facebook.com/CASTagScience/photos/a.477568575671277/4170911629670268/>

1 like, 1 share

CAST June 30, 2021

<https://www.facebook.com/CASTagScience/posts/4173954942699270>

4 likes, 1 share

CAST July 28, 2021

<https://www.facebook.com/CASTagScience/posts/4253321321429298>

2 likes, 1 share

CAST July 28, 2022

https://www.facebook.com/CASTagScience/photos/pb.134721559955982.-2207520000..5377434192351333/?type=3&eid=ARAXL09JopS2QhNHhcOEI4VDIQBZ9ZkKxTHTMW2gHv_VU2vD7o4m7Dq2KqPHvCBybRo0NS8zw8TTrVXU

This report last updated 12/13/2022

LinkedIn—

CAST May 28, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6804046100576653312>

2 likes

CAST June 15, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6810570344051552257>

3 likes

CAST June 22, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6813098251961606145>

1 like

CAST June 26, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6814568063590006784>

1 like

CAST June 28, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6815288935778942976>

1 like

CAST June 29, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6815652577070325761>

CAST June 30, 2021

<https://www.linkedin.com/feed/update/urn:li:activity:6816042645752700929>



This report last updated 12/13/2022