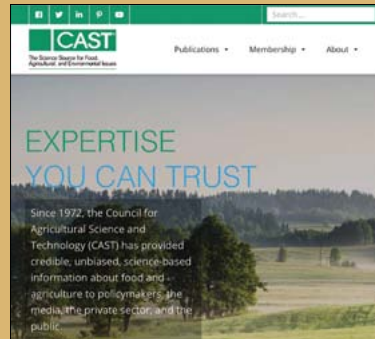
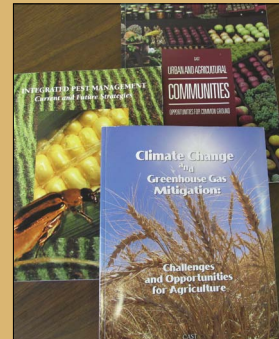
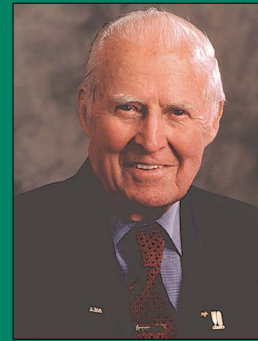


# CAST<sup>®</sup>

# ANNUAL REPORT 2021

*The Science Source for Food, Agricultural, and Environmental Issues*



*Acknowledging our past  
Preparing for the future*

# CAST<sup>®</sup>

## BOARD



**Anna Dilger**  
President



**Sally Flis**  
President-Elect



**David Baltensperger**  
Past President



**Dirk Drost**  
Treasurer



**Kent Schescke**  
Executive VP & CEO

### DIRECTORS

**President:** Anna Dilger, University of Illinois

**President-Elect:** Sally Flis, Nutrien

**Past President:** David Baltensperger, Texas A&M University

**Treasurer:** Dirk Drost, Minor Use Foundation, Inc. & D3 Consulting LLC

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**Executive Vice President & CEO:** Kent Schescke, CAST

### REPRESENTATIVES OF MEMBER SOCIETIES

**Agricultural and Applied Economics Association:** Tina Saitone, University of California-Davis

**American Association of Avian Pathologists:** Mohamed El-Gazzar, Iowa State University

**American Association of Bovine Practitioners:** Christine Navarre, Louisiana State University

**American Bar Association, Section of Environment, Energy, and Resources:** Keith Matthews, Wiley Rein LLP

**American Dairy Science Association:** Kathryn Proudfoot, University of Prince Edward Island

**American Meat Science Association:** Kaitlyn Compart, Smithfield Foods

**American Meteorological Society Committee on Agricultural and Forest Meteorology:** Eduardo Santos, Kansas State University

**American Society of Agricultural and Biological Engineers:** Alex Thomasson, Texas A&M University

**American Society of Agronomy:** Newell Kitchen, USDA-ARS

**American Society of Animal Science:** Kent Odde, Kansas State University

**American Society of Plant Biologists:** Amit Dhingra, Texas A&M University

**American Veterinary Medical Association:** Eric Gonder, DVM, MS, PhD, ACPV

**Aquatic Plant Management Society:** Lyn Gettys, University of Florida

**Crop Science Society of America:** Beth Guertal, Auburn University

**Entomological Society of America:** Phil Mulder, Oklahoma State University

**North Central Weed Science Society:** John Hinz, Bayer CropScience

**Northeastern Weed Science Society:** Anthony Witcher, Tennessee State University

**Poultry Science Association:** Jacob Lum, EURODUNA Americas Inc.

**Rural Sociological Society:** Leland Glenna, Pennsylvania State University

**Society for In Vitro Biology:** Dwight Tomes

**Soil Science Society of America:** Charles Rice, Kansas State University

**Weed Science Society of America:** Jill Schroeder, USDA-ARS

**Western Society of Weed Science:** Greg Dahl, Land O'Lakes, Inc.

### REPRESENTATIVES OF MEMBER COMPANIES

**BASF Corporation:** Padma Commuri

**Bayer CropScience:** John Swarthout

**Corteva Agriscience:** Melissa Johnson

**Syngenta Crop Protection:** Tony Burd

### REPRESENTATIVES OF MEMBER NONPROFITS

**American Seed Trade Association:** Andy LaVigne

**Association of Equipment Manufacturers:** Anita Sennett

**CropLife America:** Kellie Bray

**Innovation Center for U.S. Dairy:** Stephanie Masiello Schuette

**Minor Use Foundation:** Daniel Kunkel

**National Cattlemen's Beef Association:** Julia Herman

**National Corn Growers Association/Iowa Corn Promotion Board:** David Ertl

**National Milk Producers Federation:** Jamie Jonker

**National Pork Board:** Sara Crawford

**National Turkey Federation:** Lindy Froebel

**The Fertilizer Institute:** John Jones

**U.S. Poultry & Egg Association:** Paul Bredwell

**United Soybean Board:** Andrew Scott

### REPRESENTATIVES OF MEMBER UNIVERSITIES

**Cal Poly State University:** Jim Prince

**Iowa State University:** Curtis Youngs

**Mississippi State University:** Nancy Reichert

**Penn State University:** Blair Siegfried

**Tuskegee University:** Marceline Egnin

**University of Nevada-Reno:** Melinda Yerka

### ADDITIONAL ORGANIZATIONAL BOARD MEMBERS

American Farm Bureau Federation, Cornell University, Kansas State University, North Carolina A&T State University, North Carolina State University, Texas A&M University, The Ohio State University, University of Arkansas, University of California-Davis, University of Florida, University of Kentucky, University of Missouri, University of Nebraska

### BOARD OF TRUSTEES

Gary Thompson (Chair)—Executive Director, Southern Association of Agricultural Experiment Station Directors, University of Arkansas, Fayetteville  
 Christopher Daubert (Vice Chair)—Vice Chancellor and Dean, College of Agriculture, Food and Natural Resources, University of Missouri  
 Mohamed Ahmedna—Dean, College of Agriculture and Environmental Sciences, North Carolina A&T State University  
 Dale Bauman—Professor Emeritus, Cornell University  
 Julie Borlaug—Vice President of Communications and Public Relations, INARI Agriculture, A Flagship Pioneering Company  
 Jamie Eichorn—Commercial Unit Head, South and East Coast, Syngenta Crop Protection, LLC  
 Julie Funk—Dean, Veterinary Medicine, University of Arizona  
 Craig Hill—Iowa Farm Bureau Federation  
 Cathann Kress—Vice President and Dean, Agricultural Administration, The Ohio State University  
 Nick Place—Dean and Director, CAES, University of Georgia  
 Mike Strain—Commissioner, Louisiana Department of Agriculture and Forestry

*List as of December 31, 2021*

## PRESIDENT

We live in a world inundated with information. A few key-strokes will lead a person to more information than they can possibly use in a lifetime. While our ancestors may have imagined providing access to information would result in wisdom, we can see that is not always the case. While information is freely available, sound and credible information on which decisions should be based often seems in short supply. Since 1972, CAST has provided credible, unbiased, science-based information about food and agriculture to policymakers, the media, the private sector, and the public. We believe that decisions related to agriculture and natural resources should be based on credible information developed through scientific reasoning and consensus building. While the form of our communications may have changed over the last 50 years, the CAST mission has not. As we celebrate our 50<sup>th</sup> Anniversary, I am excited to look to the future and imagine what CAST might become as we also look back and appreciate our past.

CAST is celebrated and appreciated for our ability to convene experts to produce sound scientific consensus on timely issues, but our challenge today is cutting through the noise to make sure that information is heard and acted upon by our stakeholders. The shift to webinar rollouts of CAST papers has helped in this endeavor as our deliverables are now available immediately to a wider audience. But that is just the beginning as we are working to extend our reach through partnerships with our members to produce learning modules, manage social media campaigns, and engage new groups. I expect, in the coming years, this may result in further changes of how CAST communicates with our audiences. However, with these changes in form, we cannot stray from our mission to convene experts in communicating credible, unbiased scientific information. While the way we gain people's attention might change, *what* we communicate, namely sound science, will not.

The enthusiasm and dedication of CAST staff, members, and volunteers is what makes CAST successful. I appreciate those who are willing to dedicate their time and treasure toward CAST efforts. I look forward to working alongside all of you to start this next 50 years of CAST off right!



Anna Dilger, CAST President

## WHO WE ARE:

CAST is a nonprofit 501(c)(3) organization with a membership composed of scientific and professional societies, universities, companies, nonprofits, libraries, and individuals. Established in 1972, CAST's primary work is creating and distributing science communications developed by scientists and subject matter experts from many disciplines, including food, agriculture, and the environment.

These diverse communications are fundamental activities that accomplish our mission to convene and coordinate networks of experts to assemble, interpret, and communicate credible, un-

## EXECUTIVE VP & CEO

As CAST enters its 50<sup>th</sup> year of communicating the science, technology, and innovation of food, agriculture, and the environment, it is an opportunity to reflect on our past, celebrate our successes, and contemplate our future direction. Serving as the executive vice president of CAST for the past seven and a half years, it is particularly gratifying to see how our organization has grown and evolved, but at the same time remained focused around the original vision that the founders of CAST intended. I attribute that to four key, unchanging elements: CAST's purpose, process, people, and partners.

**Purpose.** CAST is best known for its many publications that are focused on providing a bridge between the important work of food and agricultural scientists, and a nonscientific audience. To remain relevant, our forms of communication have changed and will continue to, but our focus will not.

**Process.** CAST's work of producing credible, unbiased, science-based information is based on a rigorous peer-review process. This helps ensure the quality, objectivity, and integrity of each CAST communication.

**People.** Over the past fifteen years alone, CAST has involved and engaged well over 2,000 scientists, engineers, economists, and other subject matter specialists who have volunteered their time, energy, passion, and expertise to produce our science communications. Additionally, hundreds of individuals have served on CAST's Board of Representatives, Board of Directors, and Board of Trustees. These committed groups not only drive the ideation of new topics for CAST publications, they also provide great wisdom, guidance, and counsel that has helped promote, propel, and protect our organization.

**Partners.** CAST's 50<sup>th</sup> anniversary would not be possible without the many societies, nonprofit organizations, universities, companies, and individuals that support our efforts through their continued membership. We also appreciate those that provide support for our publications, events, and awards which are an integral part of our science communications efforts.

Another key, unchanging element is the gratitude of the CAST Boards and staff for your ongoing support, engagement, and trust in CAST's mission and work. Together we can continue this important legacy and build toward a brighter future.



Kent Schescke, CAST Executive Vice President & CEO

*"Together we can continue this important legacy and build toward a brighter future."*

— KENT SCHESCKE  
CAST EVP & CEO

ased, science-based information to policymakers, the media, the private sector, and the public.

The wide distribution of CAST communications to non-scientists—including publications, a weekly e-newsletter, many forms of social media, and a website with extensive resources—enhances the education and understanding of the general public. This in turn supports and reinforces its vision of a world where decision making related to agriculture, food, and natural resources is based on credible information developed through reason, science, and consensus building.

# 2021 BOARD MEETINGS

## Spring Board of Directors Meeting

The CAST Board of Directors held their virtual spring meeting on April 8 and 9. The directors received and discussed the “Impact of CAST” report, plans for the 2021 and 2022 fall annual meetings, and the 50<sup>th</sup> anniversary celebration. Finance, EVP, and committee reports were also on the agenda. The board also discussed important updates and progress related to the CAST Adaptive Planning process initiated and advanced at the 2019 and 2020 Annual Meetings.

## Fall Annual Meeting

The 2021 fall annual meeting occurred October 26–28 in Columbus, Ohio, at The Ohio State University campus. Throughout the three-day meeting, attendees and webinar participants stayed focused on CAST’s mission of communicating credible science and agricultural information through special sessions, videos, and webinars. Presenters and emcees included members of the CAST boards (Directors, Representatives, and Trustees), several Borlaug CAST Communication Award winners, CAST staff, government officials, and more.

Along with educational tours on campus, members attended informational sessions and met in various work groups. Informational sessions included presentations from (1) Dr. Chavonda Jacobs-Young—Administrator, USDA Agricultural Research Service—who gave updates from the USDA, (2) Juan Moreno—Founder & CEO, Sexing Technologies and STgenetics—who spoke on *Reproductive Technologies and Sustainability*, and (3) The Ohio State University discussion panel on One Health led by Dr. Rustin Moore and Dr. Lonnie King.

Newly installed CAST President Anna Dilger referred to past accomplishments but kept the focus on the future: “As CAST reflects on the last 50 years, we are proud of our many accomplishments and the value that our stakeholders find in us. In the next 50 years, what won’t change about CAST is our focus on bringing together experts to synthesize scientific findings on new technologies and pressing issues in food and agriculture. But we are excited to expand our efforts into new mediums like education modules, videos, or other formats to better reach a broad audience.” Dilger received the gavel from outgoing President David Baltensperger, a long-time CAST member and contributor.

During the annual meeting, the 50<sup>th</sup> anniversary commemorative publication was released and eight students from The Ohio State University were recognized with a science communication scholarship. Please see page five for information about the publication and page nine for information about the 2021 CAST Science Communication Scholarship.



Above right: The passing of the gavel from David Baltensperger to Anna Dilger.

Right: Attendants at the fall meeting.



# PUBLICATIONS IN 2021

CAST continued to host webinars on each publication with an interactive Q&A session with a panel of the paper’s authors. Recorded webinars and Ag quickCASTs can be viewed on our website on each publication’s landing page.

## The Role of Agricultural Science and Technology in Climate 21 Project Implementation

Commentary - QTA2021-1, June 28  
Chaired by Dr. David Baltensperger

The Climate 21 commentary was written as a follow-up to the Biden Administration’s Climate 21 Project. Each section in the paper explored and summarized the key recommendations from the Climate 21 report. Unlike most CAST papers, this was done as a “fast track” paper, with a total completion time of only seven months from proposal introduction to release.

**The Role of Agricultural Science and Technology in Climate 21 Project Implementation**

**Welcome**  
Kent Schescke, Executive Vice President/CEO, CAST

**Presentation, Followed by Q&A**

**David Baltensperger (Overview)**  
Texas A&M University

**Marty Matlock (Essay 1)**  
University of Arkansas

**Juan Tricarico (Essay 2)**  
Dairy Management Inc.

**Alex Thomasson (Essay 3)**  
Mississippi State University

**Zhengxia Dou (Essay 4)**  
University of Pennsylvania

**Debbie Reed (Essay 5)**  
Ecosystem Services Market Consortium

#CASTreports2021

## Celebrating 50 Years as the Trusted Source for Agricultural Science and Technology

Commemorative Publication, November 8

Please see page five for more information on this publication.

## Gains Foregone by Going GMO Free: Potential Impacts on Consumers, the Environment, and Agricultural Producers

Commentary - QTA2021-2, November 15

Chaired by Dr. Brandon McFadden

The GMO Free commentary explored the benefits of GMO crops to consumers, the environment, and crop and livestock producers, and impacts of the restriction of GMO crops to the economy and consumers.

**Gains Foregone by Going GMO Free: Potential Impacts on Consumers, the Environment, and Agricultural Producers**

**Welcome**  
Kent Schescke  
Executive Vice President/CEO, CAST

**Presentation**  
Brandon McFadden  
University of Delaware

Q&A Panel

**Ellen Goddard**  
University of Alberta

**Jayson Lusk**  
Purdue University

**Jill McCluskey**  
Washington State University

**Stuart J. Smyth**  
University of Saskatchewan

**Farzad Taheripour**  
Purdue University

**Allison Van Eenennaam**  
University of California, Davis

# BORLAUG CAST COMMUNICATION AWARD

On October 21, CAST celebrated the 12th anniversary of its annual Borlaug CAST Communication Award (BCCA) by honoring this year's recipient, Dr. Sarah Evanega, research professor in the Department of Global Development with a joint appointment in the School of Integrative Plant Science in the College of Agriculture at Cornell University.

Evanega is the founding director of the Cornell Alliance for Science and is an adjunct faculty member at the Boyce Thompson Institute. She has been



described as a pioneer, international leader, and icon of young science communication professionals.

The event was held at the World Food Prize Foundation Hall of Laureates in Des Moines, Iowa, and was a part of the World Food Prize Foundation Borlaug Dialogue agenda. Evanega spoke on *Set a Bolder Table for the Future: Modify, Include, Diversify*. Evanega explained why scientists and agriculturalists need to “modify, include, and diversify.” As she said, “You can be that person who offers a chair, a hand,

and says, ‘Will you join me at my table?’ ‘Will you join us at our table?’, and just as importantly, ‘May we join you at your table?’” The presentation was recorded and is available for viewing on the [CAST website](#).



Dr. Evanega presenting at the 2021 BCCA event in the World Food Prize Foundation Hall of Laureates in front of a painting of Dr. Norman E. Borlaug.



Back row: Mike Naig—IDALS, Ryan Locke—FMC, Kent Schescke. Front row: Tricia Beal—FJF, Sarah Evanega, Jay Vroom.

# CELEBRATING 50 YEARS OF CAST IN 2022

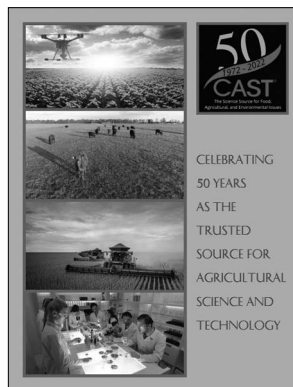
CAST will be celebrating 50 years as the trusted source for credible, balanced, science-based information in 2022. As David Baltensperger, past CAST president, notes, “CAST’s 50 years of accomplishments would not have been possible without the combined efforts of our members, supporters, staff, and volunteer authors and reviewers. Time and time again the organization has demonstrated its ability to overcome challenges—such as the COVID pandemic this past year—and emerge stronger and better prepared to face the future.”

Kent Schescke, CAST EVP & CEO, also expresses his appreciation, “We are grateful to all of our leaders over the past 50 years who have defined, and continue to refine, the mission and vision of CAST. That legacy of leadership—with its continuous influx of new and revitalized ideas and energy around communicating the science, technology, and innovation of food and agriculture—has helped propel us to where we are today. Their efforts, insights, and vision for this organization have helped us reach this important milestone.”

A commemorative publication was created in October 2021, and it offers three sections covering (1) CAST historical highlights, publications, social media, and organizational structure, (2) an impact of the CAST study report, and (3) essays

on the future of CAST. At the bottom of the publication’s pages, you can follow the history of CAST over the past five decades from its inception in 1972, to hosting “Food Day Dialogues,” to various types of publications. There are also plenty of pictures to look back upon and see how CAST has grown and changed through the decades.

CAST is planning a year-long celebration of this important milestone. A number of meetings and presentations will take place to share this publication and engage stakeholders to get their ideas, input, and suggestions about how CAST adapts to new challenges to science communications around food, agriculture, and the environment. These events will culminate at the 2022 CAST Annual Meeting which will be held in Iowa, where CAST was formed and still currently operates. [This commemorative publication](#) has been viewed over 2,600 times since its release and is available for download at [cast-science.org/publications/](#). Thank you to all of the contributors that brought this to reality.



# 2021 CAST Science Communication Scholarship Recipients

The **CAST Science Communication Scholarship** encourages graduate-level student scientists, specifically focusing on careers in agriculture or food sciences, to grow their abilities to communicate with nonscientific audiences. Selected graduate and veterinary medicine students were invited to learn about the application of science communication at the 2021 CAST Annual Meeting held at The Ohio State University. This opportunity instilled the importance of science communication by allowing students to participate in CAST's ongoing work and mission as well as provide students with networking opportunities with like-minded scientists from across the nation.



A student presentation for the 2021 CAST Science Communication scholarship at the CAST Annual Meeting held at The Ohio State University. Students submitted a short video, infographic, or a micro-podcast to present at the annual meeting.

This year, eight College of Food, Agricultural, and Environmental Sciences and College of Veterinary Medicine students from The Ohio State University received the scholarship on October 27, during the CAST Annual Meeting in Columbus, Ohio. The recipients could choose to submit a short video, infographic, or a micro-podcast, as well as submitting a short essay on how their digital media example communicates a component of their research. [Their submissions can be viewed on our website.](#)

The CAST Science Communications Award is supported by donations from several individual members of CAST.



The 2021 scholarship recipients with CAST EVP & CEO Kent Schescke and CAST President Anna Dilger (back row, far left) and CAST Communications Specialist Dylana Luett (back row, far right).



## CAST's Digital Presence

**Follow Us on Social Media:**

**Blog:** [cast-science.org/news](http://cast-science.org/news)

**Facebook:** @CASTagScience

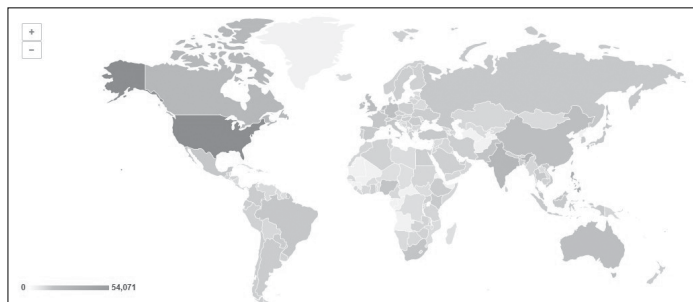
**Twitter:** @CASTagScience

**YouTube:** [youtube.com/CASTagScience](http://youtube.com/CASTagScience)

**Pinterest:** [pinterest.com/castagscience](http://pinterest.com/castagscience)

**LinkedIn:** [linkedin.com/company/castagscience](http://linkedin.com/company/castagscience)

**Website:** [cast-science.org](http://cast-science.org)



CAST's website received more than 79.8k views from all over the world in 2021.

## Top 5 CAST Publications

Below, we provide our top five publications based on impact data—all publications are [available for download at cast-science.org/publications](#).

1. *The Potential Impacts of Mandatory Labeling for Genetically Engineered Food in the United States* – IP54 – (Released April 2014)
2. *Water and Land Issues Associated with Animal Agriculture: A U.S. Perspective* – IP50 – (Released August 2012)
3. *Economic Impacts of COVID-19 on Food and Agricultural Markets* – QTA2020-3 – (Released June 2020)
4. *The Contributions of Pesticides to Pest Management in Meeting the Global Need for Food Production by 2050* – IP55 – (Released November 2014)
5. *Foodborne Pathogens: Risks and Consequences* – R122 – (Released September 1994)

### People Really "Like" Us!

In 2021, we had almost 11k followers across all our social media accounts:

- + Facebook reached 1,829 followers
- + Twitter climbed to 8,448 followers
- + LinkedIn totaled 641 followers

### KEY

- ◇ Lifetime Member
- Millennium Club
- President's Club
- ▲ Friends of CAST
- ▼ Loyalty Member Individual Member (includes retired, young professional, and students)

List as of December 31, 2021

## UNITED STATES

### ALABAMA

John Beasley Jr., Auburn ▼  
Lane Galloway, Auburn  
Channapatna Prakash, Tuskegee ◇  
Harry S. Prim Jr., Gordon ◇

### ARIZONA

Michael Brumm, Chandler ▼  
P. Thomas Cox, Phoenix ◇  
Roger D. Howard, Fountain Hills ◇  
Richard E. Stuckey, Surprise ◇  
Kai Umeda, Tempe ▼

### ARKANSAS

Fred Bourland, Keiser ▼  
Mark Cochran, Little Rock  
Marty Matlock, Fayetteville ◇  
Mila Pessotto, Fayetteville  
Gary Thompson, Fayetteville ▲

### CALIFORNIA

Julie G. Adams, Modesto ▼  
Kassim Al-Khatib, Davis ◇  
Lars Anderson, Davis  
M. J. "Moe" Bakke, Clovis ◇  
Emilee Beck, Mission Viejo  
Fred M. Carasso, Van Nuys ◇  
Richard Cavaletto, San Luis Obispo ◇  
Nathan Diplock, Oakland  
Robert C. Ehn, Clovis ▼  
Donald W. Grimes, Reedley ▼  
Jesse Johnson, Mission Viejo  
Peggy G. Lemaux, Berkeley ▼  
Jack Liebeck, Huntington Beach  
Alfredo R. Loperena, San Diego  
John Madsen, Woodland ▼  
Gary Markegard, Fortuna ▼  
Pamela Marrone, Davis ▼  
Connor McCabe, Davis  
Roland Meyer, Davis ▼  
Frank Mitloehner, Davis ◇  
Maci Mueller, Davis

James W. Oltjen, Winters ▼  
Calvin O. Qualset, Davis ◇  
Dan Rosenberg, Galt ◇  
David Songstad, San Marcos ▼  
Richard Stier, Sonoma ◇  
Joyce Strand, Sacramento ◇  
Joe Traynor, Bakersfield ▼  
Alison Van Eenennaam, Davis ◇  
Carl Winter, Davis ◇  
Alonna Wright, Sacramento

### COLORADO

John S. Avens, Fort Collins ▼  
Stephen Del Grosso, Fort Collins ▼  
Franklyn Garry, Fort Collins ▼  
Wayne F. Keim, Fort Collins ◇  
W. Dennis Lamm, Wellington ▼  
William Mcbeth, Wray  
Delbert Miles, Greeley ▼  
Jerry Olson, Fort Collins ▼  
Henry Shands, Fort Collins ◇  
Lee Sommers, Fort Collins ◇

### CONNECTICUT

Lynn R. Brown, Willington ▼

### DELAWARE

Robert Thompson, Bethany Beach ▼  
Mark VanGessel, Georgetown ▼

### DISTRICT OF COLUMBIA

Jeanne Blankenship, Washington  
Michael Goldblatt, Washington ◇  
Teresa Gruber, Washington ◇  
Hans Herren, Washington ◇  
Peter Barton Hutt, Washington ▼

### FLORIDA

Clarence Ammerman, Gainesville ◇  
Amelia Boettcher, Gainesville  
Daniel Botts, Maitland ◇  
Joel Brendemuhl, Gainesville ▼  
Hannah Camilli, Melbourne  
Bobby Darst, Tavernier ◇  
Biswadeep Dhar, Gainesville  
Kevin Folta, Gainesville ◇  
Tamiko Gaines, Gainesville  
Melvin Greeley, Mount Dora ◇  
Edward Hanlon, Immokalee ◇  
Haley Jeneske, Molino  
Marlyn Kallau, Gainesville  
Richard Lower, St. Petersburg ▼  
Gail Mahnken, Gainesville ▼  
Donald McFeeters, DeLand ▼  
Harry Mersmann, Palm Harbor ▼  
Arthur Miller, Sarasota ▼  
Gilberto Olaya, Vero Beach ▼

William Orendorff, Bradenton ▼  
Kailash Purohit, Lake City ◇  
Pedro Sanchez, Gainesville ◇  
Ayush K. Sharma, Gainesville  
Tia Tyler, Gainesville  
H. H. (Jack) Van Horn, Gainesville ◇  
Clayton Williams, Fort Myers ◇

### GEORGIA

Elizabeth L. Andress, Athens ▼  
Todd Applegate, Athens  
Louis J. Boyd, Watkinsville ◇  
Gale A. Buchanan, Adel ◇  
William Flatt, Athens ◇  
Stanley Fletcher, Peachtree City ◇  
David A. Knauft, Watkinsville ◇  
Alexa Lamm, Athens ◇  
Albert E. Pope, Gainesville ◇

### HAWAII

Sabina Budhathoki, Honolulu  
James R. Carpenter, Hilo ◇  
Roshan Paudel, Honolulu

### IDAHO

Md Hossen, Moscow

### ILLINOIS

Anna Dilger, Urbana ◇  
Richard Fredrickson, Urbana ◇  
Ralph Grotelueschen, East Moline ◇  
Philip Lofgren, River Forest ▼  
Kenneth Olson, Schaumburg ▼  
Wendell Shauman, Kirkwood ◇  
Juan Tricarico, Rosemont ◇  
James Usry, Chicago ◇  
Paul Walker, Danvers ▼  
Jack Widholm, Tolono ▼

### INDIANA

Mayesha Awal, Indianapolis  
Lindsey Berebitsky, West Lafayette  
Daniel Dorney, Vincennes ▲  
David Evans, Bloomington ◇  
Larry Huggins, West Lafayette ◇  
Melissa Johnson, Indianapolis  
Eileen Kladviko, West Lafayette ▼  
Victor Lechtenberg, West Lafayette ◇  
Jayson Lusk, West Lafayette ◇  
Lance Murrell, West Lafayette ◇  
Lewis Naylor, Goshen ▼  
Jeff Simmons, Greenfield ◇  
Jeffrey Volenec, West Lafayette ▼  
Randall Warden, Fort Wayne ▼

### IOWA

Duane Acker, Atlantic ◇  
Jimmie Andersen, Council Bluffs ▼

Paul Armbrecht, Rockwell City ▼  
Donald Beermann, Ames ▼  
Donald Beitz, Ames ◇  
John Bonner, Vincent ◇  
Linda Chimenti, Ames ◇  
Joseph Cordray, Ames ▼  
Paula Davis, Grimes ▼  
Cornelia Flora, Ames ◇  
Laura Foell, Schaller  
G. William Griffel Jr., Fort Dodge ▼  
John Hagie, Clarion ◇  
Bill Harriott, Council Bluffs ◇  
Craig Hill, West Des Moines  
John Hinz, Story City  
Maynard Hogberg, Ames ▼  
Palmer Holden, Iowa City ▼  
Dennis R. and Betty Keeney, Ames ◇  
Marvin Koeper, Rhodes ◇  
John Kolb, Ames  
William Kuhn, Urbandale ◇  
Frank Loeffel, Norwalk ◇  
Steve Lupkes, West Des Moines ▼  
Clyde Martin, Maquoketa ◇  
Rick McConnell, Grimes ◇  
Nolan Monaghan, Manchester  
Christopher Nuss, Des Moines ▼  
Todd Peterson, Urbandale ◇  
Craig Rowles, Clive ▼  
John Sawyer, Ames ▼  
Kent Schescke, Ames ◇  
Sue L. Sullivan-Twilley, Urbandale ◇  
M. A. Tabatabai, Ames ▼  
Rodrigo Tarté, Ames ▼  
Phillip Thien, Des Moines ▼  
Dwight Tomes, Johnston  
Jerry L. Wille, Ames ▼  
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- ▼ Loyalty Member Individual Member  
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List as of December 31, 2021

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Haimanot Atinkut, Gondar

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Dr. Muhammad Adnan Bodlah,  
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Aleena Kanwal, Raheem Yar Khan  
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Taqi Raza, Mian Channu  
Maliha Rehman, Mecload Ganj

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Jonah Taugi Anton, Mt. Hagen

## RUSSIA

Ranim Naal, Moscow

## SOMALIA

Ahmed Ibrahim, Mogadishu

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## INDIVIDUAL MEMBERSHIP OPTIONS

- **Lifetime Member:** \$2,500/contribution or pledge
- **Millennium Club:** \$1,000/calendar year
- **President's Club:** \$500/calendar year
- **Friends of CAST:** \$250/calendar year
- **Individual Member:** \$100/calendar year
- **Retired Member:** \$60/calendar year
- **Young Professional:** \$35/calendar year
- **Student Member:** \$0/calendar year

## BENEFITS OF MEMBERSHIP

- With your generous support, CAST will continue to strengthen its position at the international forefront of science communication.
- Receive digital exclusives like *Friday Notes* and advance notice on CAST publications and activities.
- Receive hard copies of CAST publications.
- Recognition of your support.
- CAST is a qualified 501(c)(3) tax-exempt organization. Therefore, your membership may qualify as charitable contributions under IRS guidelines.

## MEMBER SOCIETIES

Agricultural and Applied Economics Association  
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 American Association of Bovine Practitioners  
 American Bar Association, Section of Environment, Energy, and Resources  
 American Dairy Science Association  
 American Meat Science Association  
 American Meteorological Society, Committee on Agricultural and Forest Meteorology  
 American Society of Agricultural and Biological Engineers  
 American Society of Agronomy  
 American Society of Animal Science  
 American Society of Plant Biologists  
 American Veterinary Medical Association  
 Aquatic Plant Management Society  
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 Entomological Society of America  
 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  
 Weed Science Society of America  
 Western Society of Weed Science

## ASSOCIATE SOCIETIES

Association of American Veterinary Medical Colleges  
 Midwest Poultry Federation  
 Ohio Dairy Vets  
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 North Carolina State University  
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 Texas A&M University  
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American Farm Bureau Federation  
 American Registry of Professional Animal Scientists  
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 American Society of Sugar Beet Technologists  
 Animal Agriculture Alliance  
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 Biotechnology Innovation Organization  
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 Indiana Crop Improvement Association, Inc.  
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 Innovation Center for U.S. Dairy  
 Iowa Beef Industry Council  
 Iowa Corn Promotion Board  
 Iowa Farm Bureau Federation  
 Iowa Pork Producers Association  
 Iowa Poultry Association  
 Iowa Soybean Association  
 Mid America CropLife Association  
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***In 2021, CAST had  
 33 volunteer  
 task force chairs,  
 authors, reviewers,  
 and board liaisons.***

***CAST had 6,987 views  
 on publications  
 released in 2021.***

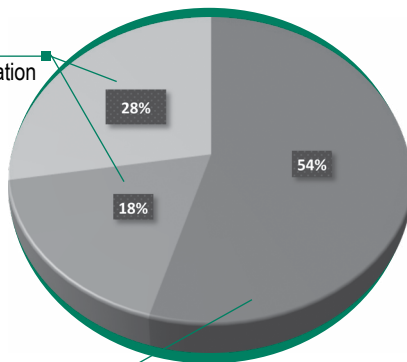
# 2021 REVENUE SOURCES



# 2021 EXPENSES

## PROGRAM SUPPORT 46%

- 4% Borlaug CAST Communication Award Support
- 16% Unrestricted Fund
- 8% Designated Publication Support
- 8% USB Grants
- 5% CRIS Contract
- 5% ARS-APHIS-NIFA-USDA



## MEMBERSHIP 54%

- 3% Individual Memberships
- 23% Company Memberships
- 11% Nonprofit Memberships

- 11% Education/Subscriber Memberships
- 6% Society and Associate Memberships

## DEVELOPMENT EXPENSE 2%

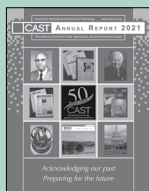
- 2% Membership Recruiting and Development

## PROGRAM EXPENSE 21%

- 14% CAST Publication Payroll
- 2% Borlaug CAST Communication Award Payroll
- 2% Direct Publication Expenses
- 3% Travel: Officers, Staff, BCCA, Publications, and Other

## ADMINISTRATIVE EXPENSE 77%

- 57% Payroll Salaries Expense
- 20% Office Expense



### FRONT COVER

- Row 1:** Charles A. Black, who was CAST's founder and first president; Issue Papers through the decades; Norman E. Borlaug, who wrote CAST's first published paper and received CAST's first "Distinguished Achievement Award in Food and Agricultural Science."
- Row 2:** CAST early newsletters; CAST's 50th anniversary logo; comprehensive Task Force Reports authored by multiple scientists.
- Row 3:** Borlaug CAST Communication Award; CAST website in 2022; U.S. Capitol, where CAST presenters met with policymakers

## COVER IMAGES



### BACK COVER

- Row 1:** Food Day Dial-ogue participants; Special Publications over the years; translations of some CAST publications into other languages.
- Row 2:** CAST officers at the ribbon-cutting ceremony for CAST's new building in Ames, Iowa; CAST office site in Ames; CAST officers burn the mortgage for the Ames location.



### 2021 CAST Staff

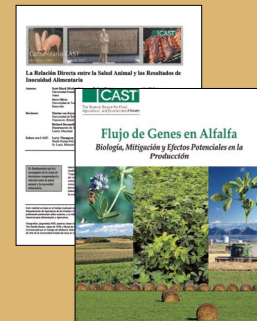
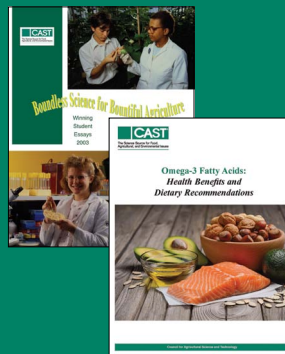
Back row: Megan Wickham, Colleen Hamilton, Gale Osborne, Anne Owens, Dylana Luett, and Rachel Bauler. Front row: Melissa Sly, Kent Schescke, and Dan Gogerty.

**CAST hosted two webinars with 13 panelists/webinar speakers and had almost 1,000 webinar registrants in 2021.**



## MISSION

CAST convenes and coordinates networks of experts to assemble, interpret, and communicate credible, unbiased, science-based information to policymakers, the media, the private sector, and the public.



## VISION

A world where decision making related to agriculture, food, and natural resources is based on credible information developed through reason, science, and consensus building.

Council for Agricultural Science and Technology  
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