

Council for Agricultural Science and Technology

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CAST[®]

ANNUAL REPORT 2020

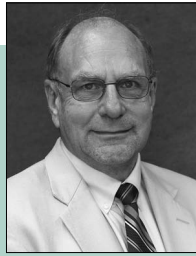
The Science Source for Food, Agricultural, and Environmental Issues



*Designing Our Roadmap
for the Future*

CAST[®]

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List as of December 31, 2020

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PRESIDENT

2020 was a challenging year for everyone, but CAST was able to pivot their plans and adapt to new technology. CAST's mission is to assemble, interpret, and communicate credible, unbiased, science-based information to nonscientific decision-makers on food, agricultural, and natural resource issues—we were able to accomplish this through our live, interactive webinars and asynchronous efforts as well.

As a member of CAST for many years, and recently as a representative of the Crop Science Society of America and currently on the Board of Directors, I have a significant background in the activities of the organization that helps guide my vision of the future. The current strategic plan outlines things that I feel strongly about and would strive to have as the focus of my leadership. I have a vision of only modest growth as I feel that we have found our niche and work well within it. However, to remain strong we must embrace advances in technology that allow us to better deliver our information in a timely manner. I am committed to a strong focus on the science behind our work and want to continue the strong engagement of our work groups. CAST is undergoing rapid transition in staffing, and we must have plans for a smooth transition as we move to the future with an outstanding staff. We need to continue to focus on the opportunity to leverage our activities with funding through multiple partnerships to continue the mission of CAST.

Even if you aren't able to attend a paper rollout in person, visit the CAST office, or attend various CAST activities, there are still plenty of ways to be involved in CAST. This coming year I encourage you to attend a webinar, read a publication, get involved in committees and subcommittees, and if you really have some free time or are dedicated to a subject—participate in developing a CAST publication.



David Baltensperger
CAST President

"I am committed to a strong focus on the science behind our work and want to continue the strong engagement of our work groups."

— DAVID BALTENSPERGER
CAST PRESIDENT

EXECUTIVE VP & CEO

This past year has been described in many ways and its impact will probably be considered historical. The onset of COVID-19 caused changes in how we live, work, shop, socialize, and communicate that will continue well into the future. Our resumption of life as normal will be an adjustment to a "new" normal.

For CAST, this included some significant adjustments to our daily operations and, more importantly, to how we communicate science-based information about food and agriculture. I was just a couple weeks away from a trip to Washington, D.C., to rollout our first 2020 publication in March when things began to shut down and travel ceased. Changes here included allowing our staff to work virtually to keep them safer. We had already been discussing the idea of adding webinars to our publication rollouts so we then moved quickly to implement that process. And, as the year progressed, we also realized the events we hold annually, such as the Borlaug CAST Communication Award (BCCA) announcement presentation and the CAST annual meeting, would have to be virtual rather than in-person.

Unexpectedly, while this past year has been challenging, it was also one of our most productive. All the operational and format changes were quickly embraced and seamlessly facilitated by the CAST boards, staff, and task force members. This resulted in our releasing nine publications, including translations of three previously published papers, and hosting 13 webinars. Two of these included the announcement of the 2020 BCCA recipient, Alexa Lamm, and her excellent presentation. And we joined the World Food Prize in their virtual format by hosting two online events the same week. Then in late October we held a virtual annual meeting that received very positive feedback from all involved.

What made all of this possible was the exceptional people who came together to support our organization. From the CAST boards and staff, to the task force volunteers who create and review our papers, to our members and webinar participants, 2020 was a successful year because of you!



Kent Schescke
CAST Executive Vice President & CEO

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 the publication of task force reports, commentary papers, special publications, and issue papers written by scientists and subject matter experts from many disciplines including agriculture, environment, and food and health.

These publications and their distribution are fundamental

activities that accomplish our mission to assemble, interpret, and communicate credible, unbiased, science-based information to policymakers, the media, the private sector, and the public.

The wide distribution of CAST publications to nonscientists enhances the education and understanding of the general public. Our vision is a world where decision-making related to agriculture and natural resources is based on credible information developed through reason, science, and consensus building.

2020 BOARD MEETINGS

Spring Board of Directors Meeting Goes Virtual

With COVID-19 travel and social distancing restrictions in place, the CAST Board of Directors switched the spring meeting from the traditional in-person Washington, D.C., venue to an online format. The series of Zoom meetings focused on adapting operations, plans, and events to the new pandemic environment—including

- releasing publications and announcing the 2020 Borlaug CAST Communication Award winner through webinars rather than in-person events,
- fast tracking a paper on the *Economic Impacts of COVID-19 on Food and Agricultural Markets*,
- financial changes and impacts, and
- creating a stakeholder survey to be incorporated into the development and refinement of the 2021–2025 Adaptive Plan.

Virtual Fall Annual Meeting

This year’s virtual gathering included nuts-and-bolts meetings plus high-level presentations and panel discussions. CAST’s outgoing president, Juan Tricarico, opened the organization’s annual meeting with an optimistic line that points to the fact that even though 2020 has thrown plenty at us all, CAST has increased its output of quality science-based publications, hosted highly attended webinars, developed its social media presence, adapted to a new website format, produced translated versions of papers, and initiated a series of publication study guides for students. As CAST EVP & CEO Kent Schescke said, “We are maintaining our mission to communicate credible, unbiased science-based information thanks to expert input from board members, committee participants, and numerous volunteers.”

Aside from work groups, business meetings, and other official actions, the annual meeting included a “USDA Science Panel” and a “BCCA Winners Science Communications Panel.” The USDA science session was moderated by incoming CAST President David Baltensperger, and it featured insights and information from Scott Hutchins, Chavonda Jacobs-Young, Parag Chitnis, and Spiro Stefanou. The panelists provided specifics about the Research, Education, and Economics (REE) mission area and its agencies, the progress on the USDA’s Ag Innovation Agenda, and answers to questions from viewers. The recording can be viewed on YouTube by searching “[CAST 2020 Annual Meeting: Presidents Message and USDA Science Panel](#).”

The BCCA session, moderated by Julie Borlaug, included insightful comments from four of the winners—Alison Van Eenennaam, Kevin Folta, Jayson Lusk, and this year’s recipient, Alexa Lamm. With a key focus on the need for building trust, the participants gave examples and advice about communicating ag and science to wide and varied audiences: “Take it to the farmers; take it to the scientists; take it to the people.” Their insights are geared toward getting us all out of our “echo chambers.” The panelists urged scientists and food production stakeholders to communicate with the public and policymakers to make progress on issues such as hunger and food production, the environment, and the use of innovation and technology. The recording can be viewed on YouTube by searching “[2020 Annual Meeting - BCCA Winners Science Communications Panel](#).”

CAST 2020 Annual Meeting

USDA Science Panel

	Scott Hutchins Deputy Under Secretary Research, Education, and Economics		Parag Chitnis Acting Director National Institute of Food and Agriculture
	Chavonda Jacobs-Young Administrator Agricultural Research Service		Spiro Stefanou Administrator Economic Research Service
	MODERATOR: David Baltensperger CAST President-elect Chair, National Agricultural Research, Extension, Education, and Economics Advisory Board		



PUBLICATIONS IN 2020

CAST adapted this year and used Zoom to host webinars on each publication with an interactive Q&A session with panelists. Student study guides were also created this year to highlight the main topics of the papers and provide questions that ask students to think more deeply about the issues. Recorded webinars and student study guides [can be viewed on our website](#) on each publication’s landing page.

Impact of Recruitment and Retention of Food Animal Veterinarians on the U.S. Food Supply, Issue Paper 67, April 6

- Chaired by Dr. Christine Navarre

Producing Food Products from Cultured Animal Tissues, Commentary QTA2020-1, April 27

- Chaired by Dr. Dustin Boler

Stewardship Challenges for New Pest Management Technologies in Agriculture, Commentary QTA2020-2, May 18

- Chaired by Dr. David R. Shaw

Economic Impacts of COVID-19 on Food and Agricultural Markets, Commentary QTA2020-3, June 29

- Chaired by Drs. Jayson Lusk and John D. Anderson

Economic Impacts of COVID-19 on Food and Agricultural Markets



Jayson Lusk, Ph.D.
Purdue University



Timothy Richards, Ph.D.
Arizona State University



Alison Davis, Ph.D.
University of Kentucky



John D. Anderson, Ph.D.
University of Arkansas

Impacts on Human Health and Safety of Naturally Occurring and Supplemental Hormones in Food Animals, Commentary QTA2020-4, July 27

- Chaired by Dr. Robert J. Collier

Agriculture and the Microbiome, Issue Paper 68, August 24

- Chaired by Drs. Megan Andrews and Ignazio Carbone

The Importance of Communicating Empirically Based Science for Society, Commentary QTA2020-5, September 21

- Chaired by Dr. Stuart Smyth

Food Biofortification—Reaping the Benefits of Science to Overcome Hidden Hunger, Issue Paper 69, October 14

- Chaired by Dr. Howarth Bouis

Ground and Aerial Robots for Agricultural Production: Opportunities and Challenges, Issue Paper 70, November 16

■ Chaired by Dr. Santosh Pitla

■ Chaired by Dr. Santosh Pitla

A screenshot from the virtual annual meeting that included a “USDA Science Panel” moderated by incoming CAST President David Baltensperger.

BORLAUG CAST COMMUNICATION AWARD

On October 13, CAST celebrated the 11th anniversary of its annual Borlaug CAST Communication Award (BCCA) by honoring this year's recipient, Dr. Alexa Lamm of the University of Georgia.

Lamm is known nationally and internationally as an acclaimed research scholar. Colleagues and associates praise her intelligence and hard work, noting that she's a "skilled translator." Lamm has a way of making tech and science accessible for all, from policymakers to the general public.

CAST Executive Vice President and CEO Kent Schescke welcomed more than 320 Zoom attendees; Barbara Stinson, the World Food Prize Foundation President, greeted the audience; Julie Borlaug of INARI Agriculture spoke on behalf of this year's sponsor CropLife Foundation; then Dr. Nick Place, Incoming Dean for the College of Agricultural and Environmental Sciences at the University of Georgia, introduced Lamm.

After being virtually presented the BCCA bronze statue, Lamm put policy into practice and delivered an insightful presentation on *Effectively Communicating Science in Times of Crisis* regarding the importance of ag/science communication in challenging times. Lamm provided science-based advice about how to consider audiences, messages, channels, and sources. She finished up her presentation by answering questions from the audience. The presentation was recorded and is available for viewing at [any time on the CAST website](#).



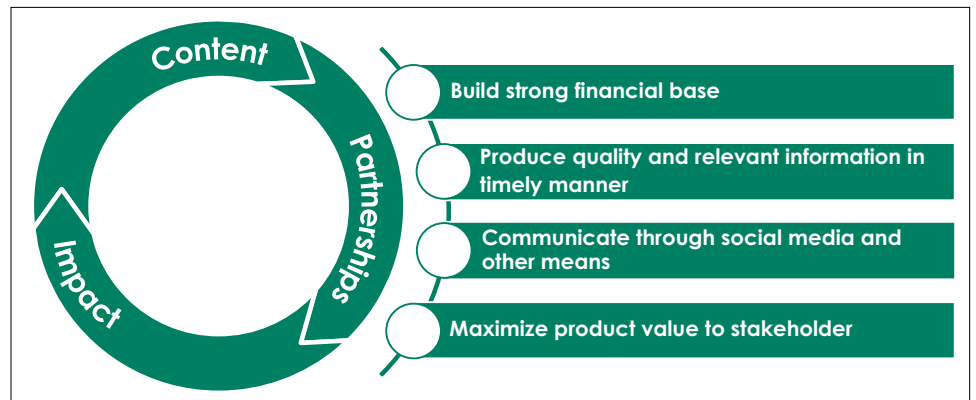
Left: Dr. Alexa Lamm, 2020 BCCA recipient.

Below: Dr. Nick Place, Dean of the University of Georgia College of Agricultural and Environmental Sciences, and Dr. Alexa Lamm.



CAST ADAPTIVE PLAN FOR 2021–2025: MAPPING OUR FUTURE

A quote attributed to Dwight Eisenhower, Winston Churchill, and a few other prominent historical figures says that "plans are useless but planning is indispensable." This quote encapsulates the intention underlying the process and desired results for the strategic plan CAST developed during 2019–2020 and [adopted at the October 2020 CAST annual meeting](#). An adaptive planning process was selected to build on the successes achieved by the implementation of the previous strategic plan while allowing CAST boards and staff more flexible execution in the future. The process allowed CAST to recognize and maintain initiatives and actions that proved successful during the 2016–2020 period, such as the four strategic plan implementation teams. It also relied on substantial stakeholder feedback to identify and synthesize stakeholder needs about the science of food and agriculture, identify three new areas of focus central to the plan (i.e., content, partnerships, and impact), and articulate four major desired results to get CAST closer to achieving its vision. In the process CAST boards and staff worked together to solicit and synthesize feedback, ask difficult and important questions, simplify to uncover the essence and sharpen the focus, and revise both the CAST mission and vision to reflect more clearly what we do and why we do it. The new strategic plan is adaptive



A deliberate and flexible strategic roadmap to guide CAST over the next 5 years from renewed mission to vision.

in nature. It will allow CAST to be flexible in a rapidly changing environment while providing the focus necessary to achieve the critical results that will bring it closer to delivering on its vision. So, join me, the CAST boards, CAST staff, CAST members, our networks of experts, our partners, and collaborators to experiment with the certainty that we are all moving together in the right direction to benefit the science of food, agriculture, and the environment.

Juan Tricarico
Past CAST President

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

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Howard Rines, Roseville ▼
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David R. Shaw, Mississippi State ▼
Betty Thomas, Starkville
Muhammet Rasit Ugur, Starkville
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Robert T. Fraley, St. Louis ◇

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John Vicini, St. Louis

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Robert Short, Laurel ◇
B. Staigmiller, Absarokee ◇

NEBRASKA

Cheryl Alberts Irwin, Lincoln
Chris R. Calkins, Lincoln ▼
Charles Francis, Lincoln ▼
Walter Graeber, Lincoln
K. E. Lanka, Fulton ◇
Martin A. Massengale, Lincoln ◇
Glen Obear, Lincoln
Fred W. Roeth, Lincoln ◇
William G. Schmutz, Omaha ▼
Michele Schoeneberger, Lincoln
Joan S. Schrader, Ashland ▼
Larry D. Schulze, Eagle ▼
Charles A. Shapiro, Concord ◇
Leroy V. Svec, Seward ▼
Raymond Ward, Kearney ◇
Ted R. Warfield, Kearney ◇

NEVADA

Warren M. Schwecke, Mesquite ◇

NEW JERSEY

C. Andrew Beagle, South Plainfield ▼
Kenneth R. Cummings, Stockton ▼
Zane Helsel, Ewing ▼
Melvin R. Henninger, East Windsor ▼
Donald Schaffner, Freehold ▼

NEW MEXICO

Robert Hagevoort, Clovis ▼
Jill Schroeder, Las Cruces ▼

NEW YORK

Philippe Baneux, Ithaca
Daniel Barber, New York
Gary Bergstrom, Ithaca ▼
Catherine Bertini, Syracuse ◇
Karyn Bischoff, Lansing ▼
Sarah Davidson Evanega, Ithaca
Keith Fairbank, Ashville ◇
Sally Flis, Wilson
Russell R. Hahn, Groton ◇
Cassandra Orndorff, Brooktondale
Marvin Pritts, Ithaca ▼
William J. Prokop, Tully ◇
Joe M. Regenstein, Ithaca ▼
Norman Scott, Ithaca
Michael L. Thonney, Ithaca ▼
Alexia Yue, Vestal

Rick Zimmerman, Albany

NORTH CAROLINA

Don V. Allemann, Greensboro ◇
Markus Andres, Chapel Hill ▼
A. Richard Bonanno, Raleigh
Garth W. Boyd, Raleigh ◇
Leonard Bull, Wilmington
Harold Coble, Cary ◇
Carl R. Crozier, Plymouth ▼
Dirk Drost, High Point ◇
Keith Edmisten, Raleigh
Walter Fehr, Chapel Hill ◇
Robert Giegengack, Winston-Salem
Robert E. Holm, Holly Springs ▼
David R. Lineback, Southport ◇
Carroll Moseley, Greensboro ▼
Ishwar Murarka, Durham ◇
George C. Naderman Jr., Cary ▼
Katharine B. Perry, West End ◇
Odis Wayne Robison, Raleigh ◇
Joseph F. Schuh, Raleigh ▼
R. Wayne Skaggs, Raleigh ◇
Ronald E. Sneed, Raleigh ▼
Charles D. Sopher, Washington ◇
Charles Stuber, Raleigh ▼
Turner B. Sutton, Windsor ▼
A. Douglas Worsham, Scottville ▼

NORTH DAKOTA

David Borlaug, Bismarck ◇
Alan Dexter, Fargo ◇
Calvin G. Messersmith, Fargo ◇
John Miller, Gackle
Neil Olson, Fargo
James L. Ozbun, Dickinson ◇
Harsh Pathak, Bismarck
Thomas Peters, Fargo ◇
Anthony Thilmony, Valley City ▼

OHIO

Alex Amador, Columbus
Mark Armfelt, Gambier ◇
David T. Brennan, Ashland
Keith I. Brown, Wooster ◇
Lucas Buehler, Botkins
Larry E. Davis, Mason ◇
Katie Eckart, Columbus
John Foltz, Dublin ◇
Daniel Gingerich, Lebanon ▲
Robert J. Gustafson, Worthington ▼
Sarah Harp, Sunbury
Robert W. Harriman, Delaware ◇
Colton Harstine, Columbus
Jane Hunt, Dublin
Hannah Jarvis, Columbus
Stanley W. Joehlin, Curtice ◇
Michael P. Kelty, Dublin ◇
Jeffrey Lakritz, Plain City

KEY

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

List as of December 31, 2020

Travis Lichtensteiger, Ohio City
 John H. Litchfield, Worthington ▼
 Phil Lowe, Beverly
 Gabe Middleton, Orrville
 Eric K. Nelson, Springfield ◇
 Audrey Rollins, Columbus
 Don Sanders, Urbana
 Eric Shaver, Berlin
 Kentlyn Weaver, Reynoldsburg
 Daysya Wells, Lewis Center

OKLAHOMA

Billy R. Clay, Stillwater ▼
 Gary Detrich, Cushing
 M. Craig Edwards, Stillwater
 William C. Edwards, Stillwater ▼
 John Fenderson, Stillwater ▼
 Drew L. Kershen, Norman ◇
 Don S. Murray, Stillwater ◇
 Jim L. Rainey, Edmond ◇

OREGON

W. James Clawson, Dallas ▼
 Thayne R. Dutson, Corvallis ◇
 Grant Ermis, Corvallis
 Russell S. Karow, Corvallis ▼
 Benjamin Rietmann, Condon
 Loydee S. Stonebrink, Rickreall ◇
 J. Lowell Young, Corvallis ◇

PENNSYLVANIA

Duncan Allison, Kennett Square
 Allyson Anderson, Exton
 Jim Borel, West Chester ◇
 Linda G. Carter, Kennett Square ▼
 Evan Crisman, Philadelphia
 Veronica Daugherty, Spring Grove
 Anna Eureyecko, Bethlehem
 Robert E. Graves, State College ◇
 Thomas Hollway, Philadelphia
 Caitlin Houlihan, Philadelphia
 Verdean E. Keyser, Boswell ◇
 Charles R. Krueger, State College ◇
 David G. Lutz, New Holland ▼

Gregory P. Martin, Elizabethtown ▼
 Carleigh Melofchik, Philadelphia
 Katelyn Newcamp, Philadelphia
 Sarah Rassler, New Tripoli
 Adria Schlesman, Greensburg
 Robert M. Smith, State College ◇
 Hannah Taylor, Allentown
 Lester Vough, Hanover ▼
 Paul J. Wangsness, State College ▼
 Leah Welk, Strasburg

SOUTH DAKOTA

Michael Brumm, Sioux Falls ▼
 David J. Schingoethe, Brookings ▼

TENNESSEE

Dwight Armstrong, Nashville ▼
 Frank J. Delfino, Columbia ▼
 Jamie Eichorn, Germantown □
 David E. Harmon, Morristown ◇
 Larry G. Heatherly, Seymour ▼
 Richard L. Large, Cordova ◇
 Troy Wakefield Jr., Brentwood ◇
 Dennis R. West, Knoxville ▼

TEXAS

David D. Baltensperger, College Station ▼
 Charles Cobb, Hereford ◇
 Carl E. Coppock, San Antonio ▼
 Gary L. Eilrich, Willis ▼
 Cady R. Engler, Bryan ◇
 Paul F. Engler, Amarillo ◇
 Calvin Hamilton, Flower Mound □ ▼
 Paul G. Harms, College Station ▼
 A. Bruce Maunder, Lubbock ◇
 Tom McDonald, Dalhart ◇
 Paul D. Ohlenbusch, Georgetown ▼
 Walter Owsley, Stephenville
 Randy Rosiere, Stephenville ▼
 Edward C. A. Runge, College Station ◇
 Jeffrey Savell, College Station ▼
 Wilson Scaling, Henrietta ▼
 Andrew Scott, Weslaco
 Stephen W. Searcy, College Station ▼
 L. R. Sprott, College Station ▼
 David Waggoner, Hillsboro ▼
 Neil F. Walter, Oglesby ▼
 Robert G. Zimbelman, Georgetown ◇

UTAH

David Dibb, Santa Clara ◇
 Calvin Pearson, Salem ▼
 Dale Bauman, South Burlington ▼
 Kent Henderson, Georgia Center

VERMONT

Julie Smith, Colchester ◇
VIRGINIA
 John A. Becker, Arlington ▼
 Mahlon A. Burnette III, Great Falls ◇
 Richard Crowder, Alexandria
 Bernadette Dunham, Hume ▼
 Alan Grant, Blacksburg ▼
 Candi Kelly, Blacksburg ◇
 Thomas W. Orme, Purcellville ◇
 Ronald Pearson, Blacksburg ◇
 J. Richard Storey, Williamsburg ◇
 Don Vondriska, Richmond ◇

WASHINGTON

Michael Anderson, Bellingham
 Bal Krishen Bhat, Seattle ▼
 Gary Hergert, Redmond ▼
 Larry K. Hiller, Pullman ◇
 Joe K. Hillers, Coupeville ▼
 Drew Lyon, Pullman ▼
 Bernalyn McGaughey, Lakewood ◇
 John P. McNamara, Pullman ◇
 Lorna Michael-Butler, Mukilteo ◇
 Tom Young, Walla Walla ◇

WEST VIRGINIA

Mary Beth Adams, Elkins
 Gary H. Heichel, Martinsburg ▼

WISCONSIN

Larry L. Borchert, Cottage Grove ◇
 Maggie Gardner, Madison
 Makayla Hawbaker, Madison
 Thomas Kennedy, Westport ▼
 Triveni P. Shukla, Mukwonago ◇
 Leo M. Walsh, Madison ◇

WYOMING

Deborah Ridge, Afton
 Alvin L. Young, Cheyenne ▼

INTERNATIONAL

ARAB REPUBLIC OF EGYPT

Amany Kinawy, Cairo

AUSTRALIA

Gregory Healy, Black Rock

BANGLADESH

Md. Shamim Aktar, Mymensingh
 Md. Jonaid Hossain, Dhaka
 Pravin Mishra, Mymensingh

CANADA

Timothy M. Ballard, Aldergrove, BC ◇
 Hannah Golightly, Burlington, ON
 Charles Gracey, Ancaster, ON ▼
 Robert Hall, Guelph, ON ◇

David Hume, Guelph, ON ▼
 Paul Lague, Baie d'Urfe, QC ▼
 John Mitchell, Hamilton, ON ◇
 Arnold B. Pierce, Calgary, AB ▼
 John Vanderstoep, Surrey, BC ▼

CROATIA

Jasmina Lukac Havranek, Zagreb ◇

ETHIOPIA

Abebe Aragaw, Addis Ababa
 Haimanot Atinkut, Gondar

FRANCE

Carlo Cardinali, Valbonne

HUNGARY

Khabat Hussein, Budapest

INDIA

Durga Prasad Naik Bhukya, Tirupati, Andhra Pradesh
 Hanuman Jatav, Varanasi, Uttar Pradesh
 Arunkumar R., Chidambaram
 Arunkumar S., Cuddalore
 Deepranjan Sarkar, Varanasi, Uttar Pradesh
 Sandeep Somvanshi, Aurangabad
 Prashant Srivastava, Lucknow
 Srikanth Tirumani, Tirupati, Andhra Pradesh

MEXICO

Francisco Mayorga Jr., Guadalajara, Jalisco

NETHERLANDS

Leon Gorris, Nijmegen ◇

NIGERIA

Akin Adesina, Abuja ◇
 Omosalewa Fadayomi, Ibadan
 Moshood Sulaiman, Kano

PAKISTAN

Taqi Raza, Mian Channu

RUSSIA

Ranim Naal, Moscow

UNITED KINGDOM

Natasza Rybka, London

***This year, there were
 159 volunteer
 task force chairs,
 authors, reviewers,
 and board liaisons.***

TRANSLATED PUBLICATIONS RELEASED IN 2020

We use freelance translators from our extended network of individuals and have the translations double-checked to ensure accuracy of the translation. The following translated publications were made possible by the in-kind support and contributions from our members:

- 食品中的农药残留解读, Mandarin Translation of *Interpreting Pesticide Residues in Food* was released on May 8.
- *Interprétation des résidus de pesticides dans les aliments*, French Translation of *Interpreting Pesticide Residues in Food* was released on June 8.
- *Impacto del Principio Precautorio en la Alimentación de las Generaciones Actuales y Futuras*, Spanish Translation of *Impact of the Precautionary Principle on Feeding Current and Future Generations* was released on September 1.



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.

Join online today @ cast-science.org.



CAST'S DIGITAL PRESENCE

Follow Us on Social Media:

Blog: cast-science.org/news

Facebook: @CASTagScience

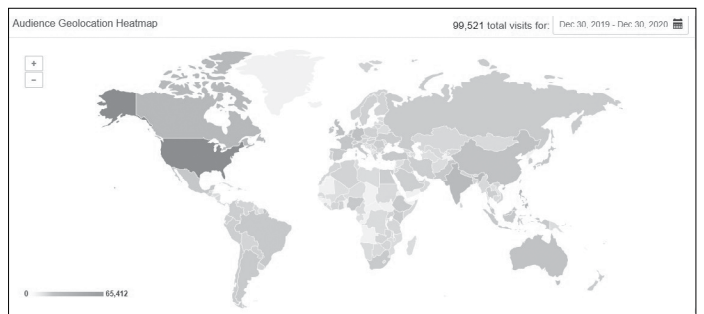
Twitter: @CASTagScience

YouTube: youtube.com/CASTagScience

Pinterest: pinterest.com/castagscience

LinkedIn: linkedin.com/company/castagscience

Website: cast-science.org



CAST's website received more than 99.5k views from all over the world in 2020.

People Really "Like" Us!

In 2020, we had over 10k followers across all our social media accounts:

+ Facebook reached 1,787 followers

+ Twitter climbed to 8,405 followers

+ LinkedIn totaled 508 followers

MEMBER SOCIETIES

Agricultural and Applied Economics Association
 American Association of Avian Pathologists
 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
 Crop Science Society of America
 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
 Philadelphia Society for Promoting Agriculture

EDUCATIONAL PROGRAMS

Cal Poly State University
 Cornell University
 Iowa State University
 Kansas State University
 Mississippi State University
 North Carolina A&T State University
 North Carolina State University
 Penn State University
 Texas A&M University
 The Ohio State University
 Tuskegee University

University of Arkansas Division of Agriculture
 University of California–Davis
 University of Florida
 University of Kentucky
 University of Missouri
 University of Nebraska
 University of Nevada–Reno

COMPANIES AND COOPERATIVES

BASF Corporation
 Bayer CropScience
 Coca-Cola Company
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 Corteva Agriscience
 DPI Global
 Foley & Lardner, LLP
 GROWMARK, Inc.
 Hoard's Dairyman Magazine
 ISK Biosciences Corp.
 Lisbon Veterinary Clinic
 The McGregor Company
 Merck Animal Health
 Morning Star Company
 Nutrien
 Page & Pedersen International, Ltd.
 Riceland Foods Foundation
 Syngenta Crop Protection, Inc.
 The Andersons, Inc.
 Van Diest Supply Company
 Zeigler Bros., Inc.

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 University of California–Davis Library
 University of Georgia Libraries
 University of Guelph–McLaughlin Library
 University of Illinois Library
 University of Maryland–McKeldin Library

University of Minnesota Libraries
 University of Tennessee Libraries
 University of Wisconsin at Madison–Steenbock Memorial Library
 Wageningen University and Research Library

EX OFFICIO MEMBERS

Agricultural Institute of Canada
 National Coalition for Food and Agricultural Research

NONPROFIT ORGANIZATIONS

Agribusiness Association of Iowa
 American Farm Bureau Federation
 American Registry of Professional Animal Scientists
 American Seed Trade Association
 American Sheep Industry Association
 American Society of Sugar Beet Technologists
 Animal Agriculture Alliance
 Animal Health Institute
 Association of American Plant Food Control Officials
 Biotechnology Innovation Organization
 California Citrus Quality Council
 California Farm Bureau Federation
 CropLife America
 Farm Foundation
 Foundation for Food and Agriculture Research
 Illinois Crop Improvement Association
 Indiana Crop Improvement Association, Inc.
 Indiana Soybean Alliance, Inc.
 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
 National Association of Animal Breeders
 National Cattlemen's Beef Association
 National Chicken Council
 National Corn Growers Association
 National Cotton Council of America
 National Milk Producers Federation
 National Pork Board

Noble Research Institute, LLC
 North American Renderers Association
 North Carolina Biotechnology Center
 Pennsylvania Pork Producers Council
 Rice Research Board
 Southern Crop Production Association
 Texas Cattle Feeders Association
 The Fertilizer Institute
 U.S. Poultry and Egg Association, Inc.
 United Soybean Board
 United States Animal Health Association
 Virginia Farm Bureau Federation
 Wyoming Farm Bureau Federation

GRANTORS/EVENT SPONSORS

Academy of Nutrition and Dietetics
 Agricultural and Applied Economics Association
 BASF
 Bayer CropScience
 Compliance Services International
 Corteva AgriScience
 CropLife America
 CropLife Foundation
 Innovation Center for U.S. Dairy
 Iowa Farm Bureau Federation
 Grand Messengers of Science
 Syngenta Crop Protection
 Texas A&M University, Department of Soil and Crop Sciences
 United Soybean Board
 USDA–Agricultural Research Service
 USDA–Animal and Plant Health Inspection Service

**CAST hosted
 13 webinars, with
 64 panelists/webinar
 speakers,
 and had more than
 5,800 webinar
 registrants.**

2020 REVENUE SOURCES



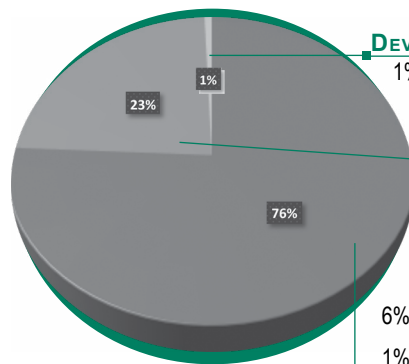
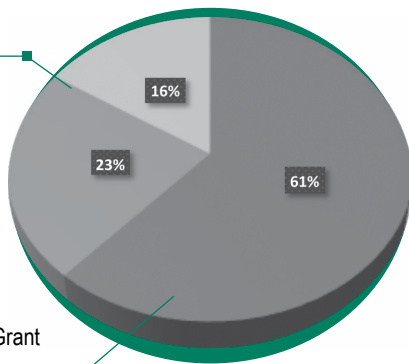
2020 EXPENSES

PROGRAM SUPPORT 39%

- 4% Borlaug CAST Communication Award
- 2% Unrestricted Fund
- 10% Designated Publication Support
- 10% Grants
- 3% CRIS Contract
- 10% ARS-APHIS-NIFA-USDA Grant

MEMBERSHIP 61%

- 3% Individual Memberships
- 22% Company Memberships
- 13% Nonprofit Memberships
- 14% Education/Subscriber Memberships
- 9% Society and Associate Society Memberships



DEVELOPMENT EXPENSE 1%

- 1% Membership Recruiting and Development

PROGRAM EXPENSE 23%

- 15% CAST Publication Payroll
- 1% Borlaug CAST Communication Award Payroll
- 6% Direct Publication Expenses
- 1% Travel: Officers, Staff, BCCA, Publications, and Other

ADMINISTRATIVE EXPENSE 74%

- 65% Payroll Salaries Expense
- 11% Office Expense

COVID-19 PAPER RELEASED

This year, CAST released a timely paper titled *Economic Impacts of COVID-19 on Food and Agricultural Markets*, which contains insights from 31 experts and discusses a variety of topics.

“The COVID-19 crisis has also shown us the danger of disregarding scientific knowledge. There is a need to reassess the regulation of new technologies in the United States and globally,” stated David Zilberman, an author on this paper and a professor in the agricultural and resource economics department at the University of California, Berkeley.

CAST BLOGS IN 2020

CAST posted 52 blogs at cast-science.org/news with 7,379 views this year. The top five blogs were:

1. *How the Pandemic is Affecting Farming*
2. *Impact of COVID-19 on Pets and Livestock*
3. *Resources and Information for Virtual Learning during COVID-19 Pandemic*
4. *How 5 Presidents Influenced American Agriculture*
5. *A Student Perspective on Recruiting Future Food Animal Veterinarians*



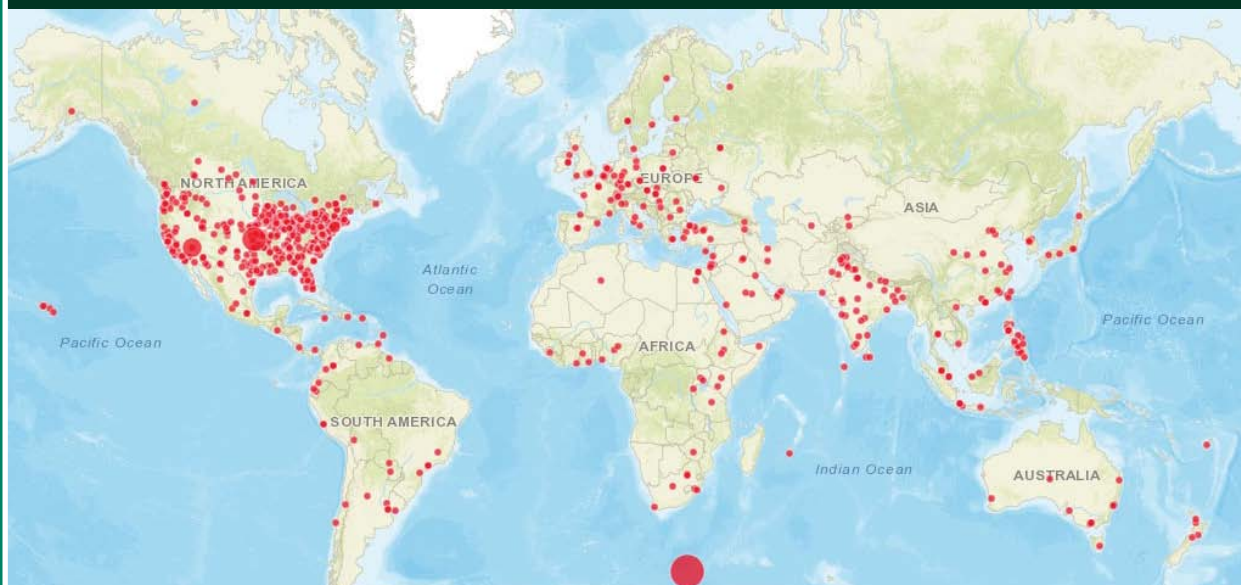
2020 CAST Staff
 (Back row, from left):
 Megan Wickham, Gale Osborne,
 Kent Schescke, Dan Gogerty.
 (Front row, from left):
 Dylana Luett, Melissa Sly,
 Caryn Dawson, Colleen Hamilton.

**CAST had
 17,127 views
 on publications
 released in 2020.**



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.



CAST had 99,521 website visits in 2020!

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
4420 West Lincoln Way Ames, IA 50014-3447
Phone: (515) 292-2125
E-mail: cast@cast-science.org

