



PRESIDENT'S MESSAGE

As I write my first newsletter article as WSSA President, it seems surreal. Only a month ago I boarded a flight from Bozeman, Montana to the island of Maui to attend the Joint WSSA/WSWS annual meeting hosted at the Hyatt Regency in Lahaina. Our 2020 Joint Meeting dodged a big one as many of us are now immersed in

social distancing and self-quarantine. We heard last week (March 25) that the Hyatt Regency Maui Resort & Spa has temporarily suspended normal hotel operations until June 1st. The impact for how the current COVID-19 pandemic will affect our lives in the longer term is still developing, but certainly we can expect some major changes in our everyday lives. Let's all wish for good health, a flattened curve, effective vaccine and other treatments, and return to normalcy where we can focus our efforts on managing weedy plants and enjoying the gift of life with our families and friends.

Let me summarize some key points of your 2020 meeting. I think we had a fabulous conference that had perhaps record attendance, at least for recent years. With about 950 total (members and guests) in attendance, that included a great mix of WSSA and WSWS members and over 160 students. The WSSA and WSWS graduate student organizations both held business meetings and a joint luncheon. For the first time, our graduate students had an opportunity to participate in a new three-minute oral thesis competition (3MT) as well as our regular poster competition. In the 3MT contest, about 40 students used a single slide to introduce and describe the importance of their graduate research. I think even the students thought it was a fun, challenging, and a very worthwhile activity. We thank our WSSA contest coordinators Darrin Dodds and Marty Schraer, as well as our WSWS colleague Carl Coburn, for helping to organize and conduct this year's competitions.

On Monday afternoon, we had an amazing keynote presentation from Dr. Samuel M. 'Ohukani'ōhi'a Gon III, senior scientist and cultural advisor for the Nature Conservancy of Hawaii. Dr. Sam Gon is a native of Hawaii and has 40 years of experience in numerous conservation and land management projects.

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**CALL FOR
2020 SYMPOSIA**
(see inside, page 4)

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Dr. Gon presented a very informative talk titled "A World of Weeds in Microcosm," where he discussed the history of exotic species invasion in the Hawaiian Islands. Our Presidents, Drs. Larry Steckel (WSSA) and Pat Clay (WSWS), did a great job tag teaming their address. At the awards ceremony, we honored a number of deserving individuals including Dr. John Byrd from Mississippi State University, who received the Outstanding Extension Award; Dr. Pat Tranel from the University of Illinois, receiving the Outstanding Research Award; Dr. Hudson Takano, who completed his PhD at Colorado State University, as our Outstanding Graduate Student; and Dr. Baruch Rubin from The Hebrew University of Jerusalem, for receiving the Outstanding Teacher Award. Dr. Rubin will hopefully join us in San Antonio next year. In addition, Dr. Muthukumar Bagavathiannan from Texas A&M is the Outstanding Early Career Weed Scientist; Dr. Terry Wright with Corteva received the Outstanding Industry Award; Dr. Susan Koehler with USDA-APHIS received the Public Service Award; and Emily Unglesbee, a staff reporter with DTN/Progressive Farmer, is the recipient of the Excellence in Journalism Award. We honored the authors of the outstanding papers in our Journals which included 1) Leary et al., Interpreting life-history traits of miconia (*Miconia calvescens*) through management over space and time in the East Maui Watershed, Hawaii (USA) for the Outstanding Paper in Invasive Plant Science and Management, 2) Montgomery et al., Sex-specific markers for waterhemp (*Amaranthus tuberculatus*) and Palmer amaranth (*Amaranthus palmeri*) for Weed Science, and 3) Lillie et al., Comparing responses of sensitive and resistant populations of palmer amaranth (*Amaranthus palmeri*) and waterhemp (*Amaranthus tuberculatus* var. *rudis*) to PPO inhibitors for Weed Technology. Our outstanding journal reviewers are Dr. Vipin Kumar from Kansas State for Weed Science, Dr. Lauren Schwartz-Lazaro from Louisiana State University for Weed Technology, and Dr. Cynthia Huebner with USDA-USFS for Invasive Plant Science and Management. Finally, our 2020 Fellows who are selected for their meritorious contributions to weed science and the society are Dr. Dan Reynolds from Mississippi State University and Dr. Bryan Young from Purdue University. We congratulate all our 2020 award winners.

At this year's conference we had about 570 regular oral and poster presentations. The Agronomic Crops Section lead the charge with 83 oral and 89 posters followed by Pasture, Range, Forest, Rights of Ways, Wildlands, and Aquatic Invasive Plants. We also had very successful Horticultural Crops, Turf and Orna-

CONTINUED on pg 3 >>>

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2021 Annual Meeting

Anita Dille, President-Elect

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WSSA FUTURE MEETING SITES AND DATES

February 15-18, 2021

61st Annual Meeting WSSA

Hyatt Regency San Antonio

Riverwalk

San Antonio, Texas

Anita Dille, Program Chair

www.wssa.net

WSSA HOME PAGE

ACCESSED AT:

www.wssa.net

THINK NEWSLETTER

Deadline for July issue

June 1, 2020

SEND NEWSLETTER

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WSSA NEWSLETTER

VOL. 48, NO. 1

APRIL, 2020

Published quarterly by the Weed Science Society of America. Subscription included in the annual dues paid by members of the Society. Address correspondence and information to:

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PRESIDENT'S MESSAGE CONTINUED from pg 2

mentals, Teaching and Extension/Technology Transfer, Formulation, Adjuvant, & Application Technology, Weed Biology and Ecology, Biocontrol of Weeds, Physiology, and Integrated Weed Management sessions. We hosted five symposia this year that included 1) 2020 Vision for Hawaiian Invasive Plant Management, Chaired by Drs. Curt Daehler and David Clements, 2) The Role of Intelligent Machines in Weed Management, Chaired by Drs. Steve Fennimore and Sharon Clay, 3) Genomics and Weed and Invasive Species, 2025 and Beyond, Chaired by Dr. Mithila Jugulam, 4) The Ecological and Biodiversity Impact of Invasive Grass Species and Their Management, Chaired by Drs. Lisa Rew and Tim Prather, and 5) Toxicology and Weed Science, Chaired by our former Past President Dr. Scott Senseman. We also had a workshop on the last day of the conference focused on Building a Community to Battle the Wicked Problem of Herbicide Resistance, Chaired by Dr. David Shaw.

We had another successful Women in Weed Science Luncheon that was graciously sponsored by Corteva. Hopefully many of you had the opportunity to attend a Luau that our colleagues at BASF offered the group this year as well as sponsored breakfasts. We thank all 23 [Sustaining Members](#) who help support the conference and the society and really appreciate their willingness to provide support for both food and entertainment at this year's conference.

We say goodbye to some folks who stepped down from the Board of Directors, including Dr. Scott Senseman, Past President; Dr. Sarah Ward, Director of Publications; Dr. Mark Bernards, Chair, Constitution and Operating Procedures and Dr. Bryan Young, Member-at-Large, and thank them for their contributions. We welcome Dr. Stanley Culpepper from the University of Georgia as our new Vice

President, Dr. Chris Willenborg from the University of Saskatchewan as our new Director of Publications, Dr. John Lindquist from the University of Nebraska as our new Chair, Constitution and Operating Procedures, and Dr. Lynn Sosnoskie, Cornell University as Member-at-Large. We also say so long to Nick Steppig, Purdue University, as our Graduate Student Member and welcome Wykle Greene from Virginia Tech. In addition, we thank Dr. Dallas Peterson for his service and welcome aboard Dr. Jill Schroeder, new WSSA CAST Representative. We want to say thanks to all the volunteers that helped organize and conduct this year's conference, including my Co-Chair Dr. Corey Ransom, WSSWS President, and the 2020 Program Committee that includes all the Section Chairs and Co-Chairs. Also, thanks to all the Committee Chairs and members for working on important issues all year. Finally, we need to give a huge thanks to Eric Gustafson, our Meeting Manager and Executive Secretary, as well as the IMI staff who have really helped make our society and annual conference a huge success. Let Eric know

how much he is appreciated next time you visit.

Next year's meeting will take place February 15–18, 2021 in San Antonio, Texas at the [Hyatt Regency San Antonio Riverwalk](#). Dr. Anita Dille, WSSA President Elect, will be our Program Chair and the call for symposia is included in this Newsletter. Finally, I would like to thank Dr. Larry Steckel, our Past President, for providing great leadership and support this past year. In addition to running around and putting out the many fires as an Extension Specialist for the University of Tennessee, Larry did a great job steering the WSSA through always uncertain waters. I look forward to working with Larry, the rest of the WSSA Board of Directors, and many of you over the next year as President and know that even in these unsure times, we will help the members of our farming communities and managers of other precious ecosystems meet the challenges that they face. I look forward to seeing you all in San Antonio, Texas in 2021.

Mahalo,
Bill Curran
President, WSSA



**NOW AVAILABLE IN
THE WSSA BOOKSTORE!**

WEED BINGO is a fun game that blends a bit of science with interesting and unusual facts about some of the world's most common and troublesome weeds. Each of the 42 weed cards included in our game includes the common and scientific name of a weed, a photo and a brief description.

WEED BINGO would make a great gift! The games are a fun, educational tool that will help raise awareness of weeds and invasive plants in managed and natural ecosystems.

Each game is \$14.95 + \$5.00 shipping and handling for domestic shipping. To purchase a game, please visit our website:

<https://wssa.memberclicks.net/books>

CALL FOR SYMPOSIA

2021 Annual Meeting of the WSSA

61st Annual Meeting of the Weed Science Society of America
Hyatt Regency San Antonio Riverwalk
San Antonio, Texas • February 15–18, 2021

WSSA members are invited to submit proposals for symposia. **The proposal deadline is June 12, 2020.** The board will evaluate the proposed symposia based on the justification, the target audience, publication plans, and the completeness of the proposal agenda and budget. Symposia organizers are strongly urged to consider publication of the symposium papers in one of the WSSA's journals, and publication will be one of the factors considered in selecting symposia for the meeting. We also encourage symposia organizers to consider building in a discussion period to further increase audience participation.

Please see the guidelines below for symposia funding from WSSA. Requests for travel support can be made for non-members only.

Symposium proposals should be emailed directly to the WSSA President Elect and Program Chair Anita Dille (dieleman@ksu.edu) and copied to the Vice President Stanley Culpepper (stanley@uga.edu) by **June 12, 2020**. *You will receive an email confirmation that your proposal has been received.* If you have any questions, feel free to email Anita.

SYMPOSIUM PROPOSAL

Outline of the Proposal Form
2021 Annual WSSA Meeting
San Antonio, Texas

Title:

Organizers:

Contact Person:

Phone:

Email:

Justification and Objectives (approximately 300 words):

Target Audience:

Publication or Outreach Plans associated with symposium presentations:

Associated Section(s):

Length of Proposed Program:

Proposed Titles and Speakers:

Budget Requested: **(Please specify the expenditure of the funds as opposed to submitting an overall amount. The more detailed the budget, the better the WSSA Board of Directors can evaluate the proposal.)**

GUIDELINES FOR DISPOSITION OF WSSA FUNDS FOR SYMPOSIA EXPENSES

Funds are available to support symposia approved by the WSSA Board of Directors for the upcoming meeting. These funds can be used by the symposium organizers, working in conjunction with the Program Chair, for expenses incurred in securing speakers. The intent of these funds is to support travel of non-member speakers.

The following guidelines are intended to help the symposia organizers and the Program Committee in allocating available funds. For a half-day symposium, the maximum allowable budget will be \$5,000 of which up to \$1,000 can be used for symposium publication costs. For full day symposia, the maximum allowable budget will be \$6,000 of which up to \$2,000 can be used for symposium publication costs. The funds will be allocated as necessary to partially cover travel speaker expenses.

Members of the WSSA who agree to present symposium papers **will not** be offered travel funds except in extreme emergencies to be determined by the Program Chair. An example of such a circumstance would be a WSSA member who is a renowned expert in the field of the symposia topic, but who has no source of funds to attend the annual meeting.

No honoraria will be offered to any speaker. No more than three nights lodging will be offered to non-member symposium speakers. All symposium speakers who are not members of WSSA will be offered free registration at the annual meeting and a free ticket to society events (other than tours) during that week. Funds for reimbursement of some, or all, travel expenses (travel, meals, and lodging) will be made available to non-member symposium speakers based on need, availability of funds, and the value of the speakers to the program.

Room rates at the Hyatt Regency San Antonio Riverwalk for the 2021 meeting will be \$150 per night plus taxes for students and start at \$209 per night plus taxes for regular members. If less than the maximum allowable funds (\$5,000 for the half-day; \$6,000 for a full day) are used for speaker travel expenses, the difference cannot be used for other purposes. Chairs should contact their intended speakers and determine their financial needs for participation. This in-

CONTINUED on pg 5 ➤➤

CALL FOR SYMPOSIA CONTINUED from pg 4

formation should be incorporated into the detailed budget for the proposed symposium.

Symposium proposals must be submitted to the President Elect and Program Chair (dieleman@ksu.edu) and Vice President (stanley@uga.edu) by **June 12, 2020**. The WSSA Board will evaluate the submitted proposals and decide which symposia will be funded. The WSSA Program Chair will inform the organizers of the symposia selected for funding. Symposium organizers that receive funding can then proceed with offers of funding to non-member speakers. In no event should symposium organizers make commitments for more funding from WSSA than what was

approved by the board. Symposium organizers are free to seek additional or alternate funding sources if symposia budget limits are insufficient to cover travel expenses for non-member speakers. Symposium organizers should strongly consider publication of symposium papers in *Weed Science*, *Weed Technology* or *Invasive Plant Science Management*.

Anita Dille
2021 WSSA Program Chair



Check Out These Random Snaps from Our Annual Meeting...



2020 WSSA AWARDS



Bryan G. Young
WSSA Fellow Award



Daniel B. Reynolds
WSSA Fellow Award



John Byrd
Outstanding Extension Award



Patrick J. Tranel
Outstanding Research Award



Hudson Takano
Outstanding
Graduate Student Award



Muthukumar Bagavathiannan
Outstanding Early Career
Weed Scientist



Terry R. Wright
Outstanding Industry Award



Vipin Kumar
Outstanding Reviewer Award
Weed Science



Lauren Schwartz-Lazaro
Outstanding Reviewer Award
Weed Technology



Cynthia Huebner
Outstanding Reviewer Award
Invasive Plant Science and
Management



Baruch Rubin
Outstanding Teacher Award



Susan Koehler
WSSA Public Service Award



Emily Unglesbee
Excellence in Journalism Award

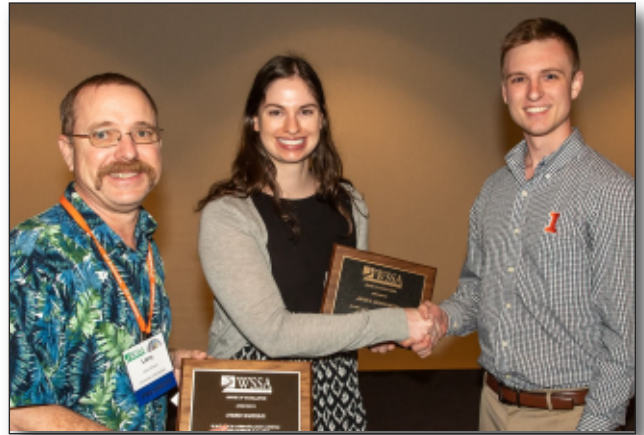


Outstanding Paper Award, Invasive Plant Science and Management
Interpreting life-history traits of miconia (*Miconia calvescens*) through management over space and time in the East Maui Watershed, Hawaii (USA)

James Leary, University of Hawaii at Manoa
Not Pictured: Brooke Mahnken, Maui Invasive Species Committee;
Christopher Wada, University of Hawaii at Manoa;
Kimberly Burnett, University of Hawaii at Manoa

Outstanding Paper Award, Weed Science
Sex-specific markers for waterhemp (*Amaranthus tuberculatus*) and Palmer amaranth (*Amaranthus palmeri*)

Jacob Montgomery, University of Illinois
Not Pictured: Ahmed Sadeque, University of Illinois; Darci Giacomini, University of Illinois; Patrick Brown, University of Illinois; Patrick Tranel, University of Illinois



Outstanding Paper Award, Weed Technology
Comparing Responses of Sensitive and Resistant Populations of Palmer Amaranth (*Amaranthus palmeri*) and Waterhemp (*Amaranthus tuberculatus* var. *rudis*) to PPO Inhibitors

Patrick Tranel, University of Illinois
Not Pictured: Kathryn Lillie, University of Illinois;
Darci Giacomini, University of Illinois



For more information on the
2020 Weed Science Society of America awards:
[Awards Program](#)

*The WSSA would like to thank Joseph Omielan,
who generously volunteered his time and talents
to furnish the photographs included
in this Newsletter.*

WSSA 2020 Student Contest Winners

WSSA 3 MT COMPETITION



Samantha Isaacson
MS, 3rd place tie



Hayden Quick
MS, 3rd place tie



Mason Castner
MS, 2nd place



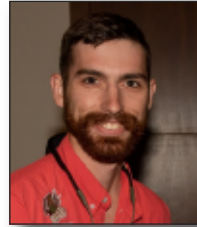
Taylor Randell
MS, 1st place



Grant Priess
PhD, 3rd place



Kayla Eason
PhD, 2nd place



Justin Calhoun
PhD, 1st place

WSSA-WSWS POSTER COMPETITION



Bradley Wilson
PhD, 3rd place



Lucas Bobadilla
PhD, 2nd place



Matthew Osterholt
PhD, 1st place



Crystal Sparks
PhD, 3rd place



Neeta Soni
PhD, 2nd place



Carlos Alberto Rigon
PhD, 1st place



Maria Gannett
PhD, 3rd place



Aniruddha Maity
PhD, 2nd place



Spencer Samuelson
PhD, 1st place



John Schramski
MS, 1st place tie



Katherine Diehl
MS, 1st place



Samuel Palmer
MS, 3rd place



Rodger Farr
MS, 2nd place



Jacob Montgomery
MS, 1st place

Not Pictured:
Jose de Sanctis
Adam Constine

Jonathan Glueckert
Zachary Howard

More Photos From Our Annual Meeting



BASF Sponsored Luau

Reception



**General Session Keynote Speaker
Samuel 'Ohukani'ōhi'a Gon III**

Business Meeting Recognitions



Passing of the Gavel



Nick Steppig



Sarah Ward

WASHINGTON REPORT

by Lee Van Wychen, Director of Science Policy

ADMINISTRATIVE RELIEF FOR FEDERAL GRANT RECIPIENTS DUE TO COVID-19

On March 19, 2020, the federal Office of Management and Budget (OMB) issued a memo (M-20-17) titled: “Administrative Relief for Recipients and Applicants of Federal Financial Assistance Directly Impacted by the Novel Coronavirus (COVID-19) due to Loss of Operations.”

The USDA National Institute of Food and Agriculture (NIFA) is particularly concerned about institutions with faculty, staff, and students who depend on grant funding for their livelihood and are required to shelter in place. However, the OMB memo specifically states: *Awarding agencies may allow recipients to continue to charge salaries and benefits to currently active Federal awards consistent with the recipients’ policy of paying salaries (under unexpected or extraordinary circumstances) from all funding sources, Federal and non-Federal (Appendix A, No. 6).*

OMB’s March 19th memo bolsters NIFA’s continued response to COVID-19 as it allows the agency to also provide flexibilities for recipient organizations affected by the loss of operational capacity. Appendix A of the memorandum details administrative relief actions and procedures Federal awarding agencies are authorized to take.

Questions regarding the applicability of the memorandum’s administrative relief provisions should be directed to NIFA’s Awards Management Division at awards@usda.gov. For more information, see [OMB’s M-20-17](#).

EPA APPROVES ISOXAFLUTOLE USE ON SOYBEANS

On March 30, EPA announced the registration of the use of isoxaflutole on genetically engineered soybeans. “Safe and effective weed management is a constant challenge that farmers face,” said American Soybean Association President and soybean grower from Worthington, Minnesota, Bill Gordon. “EPA’s registration of isoxaflutole will provide soybean growers with an important new tool to combat damaging weeds and help better control emerging herbicide-resistance issues.

Isoxaflutole is already registered by EPA for use on corn in 33 states. Like this existing use, the new registered use of isoxaflutole on genetically engineered soybeans is classified as a restricted-use pesticide, meaning that applicators must receive special training in order to use it. The training will emphasize ways applicators will protect ground and surface water and non-target plants.

The new use on genetically engineered soybeans would be limited to specific counties in 25 states. EPA is limiting use to these specific counties to protect endangered or threatened species from exposure. EPA is also including additional use restrictions, such as not allowing aerial and irrigation system applications.

The registration is limited to five years during which EPA will evaluate any potential weed resistance issues that may result. As part of the terms and conditions of the registration, the registrant must provide a herbicide-resistance management plan and submit annual reports to EPA.

More information, including the

final registration decision, can be found on: [isoxaflutole soybeans](#)

USDA CASTS VISION FOR SCIENTIFIC INITIATIVES THROUGH 2025

The Agriculture Department has published a “USDA Science Blueprint” to serve as its vision for and commitment to scientific research through 2025. It lays out five overarching themes for research, education, and economics, each with established objectives, strategies, and evidence-building measures. The five Program Themes include: 1) sustainable ag intensification, 2) ag-climate adaptation, 3) food and nutrition translation, 4) value-added innovations, and 5) ag science policy leadership.

The [USDA Science Blueprint](#) (PDF, 2.6 MB) includes the four REE mission area agencies — the Agricultural Research Service (ARS), the Economic Research Service (ERS), the National Agricultural Statistics Service (NASS), and the National Institute of Food and Agriculture (NIFA) — along with the Office of the Chief Scientist (OCS) and the science arms of the U.S. Forest Service (FS), Food Safety and Inspection Service (FSIS), Natural Resources Conservation Service (NRCS), Food and Nutrition Service (FNS), and the Animal and Plant Health Inspection Service (APHIS).

Some strategies listed under plant production, health and genetics within the sustainable ag intensification theme include:

- Tap into genetic diversity and use genomic technology to accelerate breeding progress, decrease susceptibility to climate variability, pests,

CONTINUED on pg 11 ➤➤

diseases, and weeds, and increase yield potential.

- Use precision agriculture technologies, innovative input technologies and stand improvement to optimize resource use and reduce the gap between actual yield and yield potential.
- Improve surveillance, early detection, rapid response, and recovery for transboundary, vector-borne, emerging/reemerging, and costly endemic crop diseases, insects, and weeds through research, education, and extension.
- Identify key factors in producer behavior change and technology adoption models emphasizing the critical decisions and thresholds.

BILL AUTHORIZING 600 NEW AGRICULTURAL INSPECTORS SIGNED INTO LAW

On March 4, “The Protecting America’s Food & Agriculture Act of 2019” was signed into law, which addresses the shortage of agricultural inspectors who protect the nation’s food supply and agriculture industry and ensure safe and secure trade of agricultural goods across borders. The act authorizes U.S. Customs & Border Protection (CBP) to hire additional inspectors, support staff and K-9 teams to fully staff America’s airports, seaports and land ports of entry.

The USDA and CBP work together to facilitate safe and secure importation of agricultural goods into the U.S. The program’s agricultural specialists and K-9 units conduct inspections of passengers, commercial vessels, trucks, aircraft and railcars at U.S. ports of entry to protect health and safety by preventing the entry of harmful goods and invasive species that may pose a threat to American food and agriculture. On a typical day (prior to COVID-19), inspectors process more than 1 million passengers and 78,000

truck, rail and sea containers carrying goods worth approximately \$7.2 billion.

The act authorizes the annual hiring of 240 agricultural specialists a year until the workforce shortage is filled and 200 agricultural technicians a year to carry out administrative and support functions. The act also authorizes the training and assignment of 20 new K-9 teams a year, which have proven valuable in detecting illicit fruits, vegetables and animal products that may have otherwise been missed in initial inspections. Finally, it authorizes supplemental appropriations each year to pay for the activities of the agriculture specialists, technicians and K-9 teams.

COOPERATIVE EXTENSION SYSTEM COVID-19 RESOURCE COLLECTION GROWS

A comprehensive collection of COVID-19 resources developed by the Cooperative Extension System is available at [Extension-Response](#). To date, 48 land-grant institutions have contributed to the collection with new items being added nearly every day. In addition to materials submitted by states, the site also includes a number of general resources that Extension professionals and others may find useful. Recently added were collections of

materials related to farmworkers, food systems, and health insurance for farm families. Navigation of the site has been aided by the addition of labels indicating whether a particular link contains information regarding institutional policies and procedures related to COVID-19 or programmatic resources for engaging the public. Links to additional resources can be sent directly to contact-us@extension.org.

THE UNIFIED WEBSITE FOR BIOTECHNOLOGY REGULATION

The USDA, FDA, and EPA launched a Unified Website for Biotechnology Regulation: [Biotechnology Regulation](#). The Website streamlines information about the three regulatory agencies charged with overseeing agriculture biotechnology products and is part of the President’s Executive Order on Modernizing the Regulatory Framework for Agricultural Biotechnology Products.

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Your Source for Books and More!

<https://wssa.memberclicks.net/books>

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THINK NEWSLETTER

Deadline for July issue

June 1, 2020

CALENDAR OF UPCOMING EVENTS

DATE	EVENT	LOCATION	CONTACT
July 19–22, 2020	Aquatic Plant Management Society Annual Meeting (APMS)	San Antonio, Texas	www.apms.org
November 23–26, 2020	Canadian Weed Science Society Annual Meeting (CWSS)	Gatineau, Quebec	www.weedscience.ca
November 30–December 2, 2020	North Central Weed Science Society Annual Meeting (NCWSS)	Minneapolis, Minnesota	www.ncwss.org
January 4–7, 2021	Northeastern Weed Science Society Annual Meeting (NEWSS)	Gettysburg, Pennsylvania	www.newss.org
January 24–28, 2021	Southern Weed Science Society Annual Meeting (SWSS)	Knoxville, Tennessee	www.swss.ws
February 15–18, 2021	Weed Science Society of America Annual Meeting (WSSA)	San Antonio, Texas	www.wssa.net
March 1–4, 2021	Western Society of Weed Science Annual Meeting (WSWS)	Boise, Idaho	www.wsweedscience.org

Additional Weed Science Meetings and Events can be found at <http://wssa.net/meeting/calendar-of-meetings/>



Welcome to HEAR@CSU, a workshop on Herbicide Efficacy, Action and Resistance

This workshop is specially designed for those who need a refresher on how herbicides work. Lectures include all mechanisms of action, how they are used, how they work and how plants have evolved resistance. Other topics include herbicide interactions with plants and soil, crop injury, and non-performance. This workshop will be held August 3-6 on the beautiful campus of Colorado State University in Fort Collins CO.

Website: <https://conferencereg.colostate.edu/HEAR2020>
Contact: Franck Dayan at franck.dayan@colostate.edu

Monday	Tuesday	Wednesday	Thursday
Morning -Herbicide-plant interactions -Herbicide-soil interactions -ALS inhibitors -PPO inhibitors Afternoon -ACCase inhibitors -VLCFAE inhibitors -Transgenic crops	Morning -Glyphosate -Glufosinate -Synthetic auxins -Mitosis inhibitors Afternoon -Managing resistance -PSI and PSII inhibitors -Bleaching herbicides	Morning -Safeners and adjuvants -Crop injury -Herbicide non-performance Afternoon -Field trip	Morning -Cellulose inhibitors -Aquatic weeds -Novel target sites -Summary

Speakers



Franck Dayan
Colorado State University



Todd Gaines
Colorado State University



Mithila Jugulam
Kansas State University



Scott Nissen
Colorado State University



Christy Sprague
Colorado State University

