2018 Weed Science Society of America -- Travel Enrichment Experience

Purpose: The Travel Enrichment Experience (TEE) will provide an opportunity for WSSA graduate students to participate in a five day, four night educational experience with professionals in a different WSSA region.

Student Application Deadline: WSSA Treasurer Phil Banks, must receive all application materials via email by **June 1, 2018**. Please use "WSSA Travel Enrichment Experience" in subject line. Submission of all information into a single PDF file is preferred but not required.

Description of Scholarship: TEE recipients will have a five day, four night educational experience of their choosing, as described in Table 1. Opportunities for broadening knowledge of weed science range from field, lab, and Extension settings with industry, government, or university professionals. Each recipient will be awarded $2000 from the WSSA to pay for expenses incurred during his/her experience.

Eligibility Requirements: Applicants must meet the following criteria:

1. Enrolled as a current degree-seeking graduate student (M.S. or Ph.D.) in good academic standing at an accredited college or university
2. Currently conducting, or have recently finished, research in the area of weed science
3. Be an active member of the WSSA at the time of application
4. **Each recipient must submit an abstract and present a 10-minute paper about his/her experience at the following WSSA annual meeting.** Specifics will be provided directly to recipients.

Application Procedure:

1. Completed application form (provided on Page 8)
2. Cover letter describing applicant's interest in weed science and the travel enrichment experience (< 1 page)
3. Brief resume or CV summary highlighting recent relevant experiences (< 1 page)
4. Two letters of support, one of which must be from the applicant's graduate or major advisor
5. Academic transcripts (unofficial copy is acceptable)
6. Email application information to Phil Banks (marathonag@zianet.com) by June 1, 2018, with "WSSA Travel Enrichment Experience" in the subject line.

Selection Criteria and Process: Applicants will be evaluated based on contribution of research to the discipline of weed science and to the WSSA objectives, academic record and scholarly achievements, and potential contributions to the future of weed science. Submitted applications will be distributed to the selection committee members where each member of the committee will evaluate and rank the applicants as shown on the Application Evaluation Form on Page 8. One student from each U.S. region and one from Canada will be selected. Judging will not be performed by individuals with a personal or advisory affiliation with an applicant.

Timeline: The selection process will be completed by June 20, 2018. TEE recipients and their host(s) will determine the date in 2018 for the experience to occur. The selection committee will function as a liaison between the recipients and their host(s) throughout the process.

Revising Guidelines or Procedures: The selection committee can make changes or revisions to the TEE guidelines and operating procedures as more experience is obtained. The committee welcomes suggestions from the membership on methods to improve this experience for students.

Table 1. Host opportunities provided for the WSSA TEE organized by region.

Host name and institution	Location	Experience
Canadian Weed Science Society		
AAFC: Dr. Charles Geddes	Lethbridge, AB	Seedbank ecology, seed fate, integrated weed management, and agronomy in dryland and irrigated cropping systems; focus on herbicide-resistant weeds in the Canadian prairies
Dalhousie University: Dr. Scott White	Truro, NS	Management of perennial weeds in natural and agroecosystems, with particular emphasis on perennial weed management in wild blueberry
University of Guelph: Dr. Clarence Swanton	Guelph, ON	Plant interactions, how plants communicate, and physiological and molecular mechanisms of plant competition
AAFC: Drs. Rob Nurse & Eric Page	Harrow, ON	Integrated weed management in horticulture crops, novel low-risk management tactics for herbicide-resistant weeds and invasives; crop-weed ecology and competition, crop stress physiology, population dynamics
AAFC: Dr. Sara Martin	Ottawa, ON	Genetic work relating to members of the mustard family and herbicide-resistant weeds; work with the Canadian Bioresource Collections for Resilient Agriculture
AAFC: Dr. Andrew McKenzie-Gopsill	Charlottetown, PE	Weed biology and ecology for the development of integrated weed management programs in organic and conventional systems

FMC: Mitch Long	Saskatoon, SK	Population genetics, genomics, herbicide resistance evolution, gene flow and risk assessment
University of Saskatchewan: Dr. Steve Shirtliffe	Saskatoon, SK	Design innovative weed control methods to control weeds in systems where herbicides are ineffective
Southern Weed Science Society		
Auburn University/USDA-ARS: Dr. Andrew Price	Auburn, AL	Applied research in weed management for conservation vegetable and row crop production systems
Corteva Agriscience: Dr. Ryan Miller	Little Rock, AR	Exposure to commercial agriculture including interaction with seed partners in multiple crops; weed science research and demonstration; market development and new technologies
Syngenta: Dr. David Black	Searcy, AR	Pest management (insect, disease, and weeds) in cotton, soybean, corn, & rice
University of Arkansas: Dr. Bob Scott	Stuttgart, AR	Operation of a university research farm; administration; weed control in various crops, especially rice
University of Florida: Dr. Stephen Enloe	Gainesville, FL	Research focused on terrestrial and aquatic invasive plant biology, ecology, and management
University of Georgia: Drs. Stanley Culpepper & Eric Prostko	Tifton, GA	Peanut, corn, soybean, cotton, and vegetable weed management from an Extension specialist's point of view
Louisiana State University: Drs. Daniel Stephenson & Eric Webster	St. Joseph, LA	Weed management in agronomic crops including cotton and rice
FMC: Dr. Frank Carey	Olive Branch, MS	Exposure to herbicide resistance in rice, cotton, soybean, corn, grain sorghum, peanuts, and sweet potatoes; experience with how industry cooperates with universities and independent companies throughout Arkansas, Tennessee, and Mississippi
Monsanto: Jay Mahaffey	Scott, MS	Research and demonstration trials in multiple crops and disciplines; field tours; operation on an industry research and demonstration facility
Clemson University: Dr. Matthew Cutulle	Charleston, SC	Research focused on improving weed control in conventional and organic vegetable production

University of Tennessee: Dr. Jim Brosnan	Knoxville, TN	Weed management in turfgrass; herbicide resistance in *Poa annua* and *Eleusine indica*; diagnostic testing of herbicide resistant weeds; plant growth regulators
Texas A&M University: Dr. Muthu Bagavathiannan	College Station, TX	Developing IWM programs for cropping systems with herbicide resistance; weed ecology and population dynamics; problem-centric approaches to agronomic issues; broad-spectrum approaches to limiting herbicide resistance development
Texas Tech University: Dr. Peter Dotray	Lubbock, TX	Herbicide resistant weed management in cotton and cotton rotation systems; Extension work in the Texas Southern High Plains
Northeastern Weed Science Society		
Cornell University: Dr. Toni DiTommaso	Ithaca, NY	High commitment to creating a unique teaching environment, following a pedagogical style; environmental effects on invasives/weeds, including various biotic and abiotic factors, in natural Northeastern U.S. landscapes
Syngenta: Drs. Janis McFarland & Carroll Moseley and Dan Campbell	Greensboro, NC	The Syngenta facility in Greensboro features a unique exposure to the weed science industry with Dr. McFarland (Head of Regulatory and Stewardship, North America), Dr. Moseley (Sr. Environmental Stewardship & Policy Manager), and Mr. Campbell (Team Lead for Regulatory Affairs).
North Carolina State Univ.: Dr. Wes Everman	Raleigh, NC	Weed management in corn, soybeans, small grains, and sorghum (milo); drone research for weed detection in row crops; water stress on crop-weed competition

Virginia Tech: Drs. Shawn Askew, Jacob Barney, & Michael Flessner	Blacksburg, VA	A TEE recipient would be exposed to multiple disciplines, including environmental, chemical, and cultural effects on weed management in turfgrass (Dr. Askew); propagule pressure and ecological/niche/habitat impacts of invasive species on natural landscapes, as well as perennial grass bioenergy potential (Dr. Barney); and high-residue cover crops for managing herbicide-resistant weeds with consideration for herbicide carry-over from the cash crop to the cover crop (Dr. Flessner).
North Central Weed Science Society		
University of Illinois: Drs. Adam Davis, Aaron Hager, & Pat Tranel	Champaign, IL	Exposure to weed science in field, molecular, and Extension applications, plus the use of data science to gain a deeper understanding of weed ecology and management
Purdue University: Drs. Bill Johnson & Bryan Young	West Lafayette, IN	Weed science research bridging the basic and applied aspects of weed management; exposure to field, lab, greenhouse, and Extension weed science
Kansas State University: Drs. Anita Dille & Dallas Peterson	Manhattan, KS	Weed management in Kansas crop production systems with a focus on Extension and ecology
Michigan State University: Dr. Christy Sprague	East Lansing, MI	Extension weed science focusing on integrated weed management, biology, and ecology in soybean, sugar beet, dry bean, and potato production.
Monsanto: Matt Nelson	Creve Coeur, MO and Huxley, IA	An opportunity to interact with weed scientists in trait technology and herbicide technology development. Experience will include two days at Monsanto's headquarters, then exposure to "a day in the life of a Monsanto Technical Development Representative" while touring Monsanto's research facilities in Missouri and Iowa.

Cropwise Research, LLC Dr. Brent Petersen	St. Cloud, MN	Working as president of an agricultural research company that conducts field research with seed and agrichemical companies; providing expert testimonials for crop-related lawsuits
Western Society of Weed Science		
Corteva Agriscience: Dr. Joe Armstrong	Fresno, CA	Exposure to commercial agriculture including interaction with seed partners in multiple crops; weed science research and demonstration; market development and new technologies
Univ. of California, Davis: Dr. Brad Hanson	Davis, CA	Weed management in vine and tree (nut and fruit) cropping systems that focuses on weed control efficacy, crop & environmental safety, and farmer economics; integrated weed management in perennial crops; research & Extension work in lab, field, and greenhouse
Colorado State University: Drs. Franck Dayan & Todd Gaines	Fort Collins, CO	Molecular genetics lab experience includes DNA extraction, genotyping assays, and qPCR for gene copy number; weed genomics for understanding competitiveness and hardiness
University of Idaho: Dr. Don Morishita	Kimberly, ID	Weed management in irrigated dry bean and sugar beet cropping systems; effects of cover crops and tillage on weed control within these cropping systems; potential hormetic effect of non-registered herbicides on sugar beets
Montana State University: Drs. Sharlene Sing & Sarah Ward	Bozeman, Mt	Biocontrol-based management of invasive weeds on federal and state-owned forest and rangeland in Montana
New Mexico State Univ.: Dr. Brian Schutte	Las Cruces, NM	Working with farmers to deplete the soil weed seedbank economically; weed seed fate due to abiotic factors and predation; weed management in Southwest U.S. crops like chile peppers and canola
Oregon State University: Dr. Andy Hulting	Corvallis, OR	Developing integrated weed management tactics for the wide variety of cropping systems across Oregon; weed and invasive ecology

		research and Extension work on lands where agricultural and non-agricultural uses overlap

Scholarship Application Form

(Send all documents to Phil Banks, marathonag@zianet.com by June 1, 2018)

1. Applicant Name:

2. Selection of Host Institution for the WSSA Travel Enrichment Experience:

   First Choice: _____

   Second Choice: _____

   Third Choice: _____

3. Cover Letter (max 1 page):

4. Resume or CV Summary (max 1 page):

5. Academic Transcript (official transcripts NOT required):

6. Include two letters of support, including one from your academic advisor.