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.

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

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

FMC: Mitch LongSaskatoon, SKherbicide resistance evolution, gene flow and risk assessmentMitch LongSaskatoon, SKDesign innovative weed control methods to control weeds in systems where herbicides are ineffectiveUniversity of Saskatchewan: Dr. Steve ShirtliffeSaskatoon, SKDesign innovative weed control methods to control weeds in systems where herbicides are ineffectiveAuburn University/USDA- ARS: Dr. Andrew PriceAuburn, ALApplied research in weed management for conservation vegetable and row crop production systemsDr. Andrew PriceAuburn, ALExposure to commercial agriculture including interaction with seed partners in multiple crops; weed science research and demonstration; market development and new technologiesSyngenta: Dr. David BlackPest management (insect, disease, and weeds) in cotton, soybean, corn, & riceUniversity of Arkansas: Dr. Stephen EnloeGainesville, FLOperation of a university research farm; administration; weed control in various crops, especially riceUniversity of Florida: Dr. Staphen EnloeTifton, GAExtension specialist's point of viewLouisiana State University: Drs. Daniel Stephenson & Eric WebsterSt. Joseph, LAWeed management for an including cotton and riceFMC: Dr. Frank CareyOlive Branch, MSResearch and demonstration trials in multiple crops and disciplines; field tours; operation on an adiceFMC: Dr. Frank CareyOlive Branch, MSResearch and demonstration trials in multiple crops and disciplines; field tours; operation on an industry research independent companies throughout independent co			Population genetics, genomics,
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FMC: Dr. Frank CareyOlive Branch, MSIndependent companies throughout Arkansas, Tennessee, and MississippiMonsanto: Jay MahaffeyResearch and demonstration trials in multiple crops and disciplines; field tours; operation on an industry research and demonstration facilityResearch focused on improving weed			cooperates with universities and
Dr. Frank CareyOlive Branch, MSArkansas, Tennessee, and MississippiMonsanto: Jay MahaffeyScott, MSResearch and demonstration trials in multiple crops and disciplines; field tours; operation on an industry research and demonstration facilityResearch focused on improving weed	FMC:		independent companies throughout
Monsanto: Research and demonstration trials in multiple crops and disciplines; field tours; operation on an industry research and demonstration facility Jay Mahaffey Scott, MS and demonstration facility Research focused on improving weed	Dr. Frank Carev	Olive Branch. MS	Arkansas, Tennessee, and Mississippi
Research and demonstration trials in multiple crops and disciplines; field tours; operation on an industry research and demonstration facilityJay MahaffeyScott, MSAdditional and demonstration facilityResearch focused on improving weed		- 7	
Monsanto:multiple crops and disciplines; field tours; operation on an industry research and demonstration facilityJay MahaffeyScott, MSAnd demonstration facilityResearch focused on improving weed			Research and demonstration trials in
Monsanto:tours; operation on an industry researchJay MahaffeyScott, MSand demonstration facilityResearch focused on improving weed	Managata		multiple crops and disciplines; field
Jay Mananey Scou, MS and demonstration facility Research focused on improving weed	Nonsanto:	Soott MS	tours; operation on an industry research
Research focused on improving weed			Passarah focused on improving wood
Clemeon University:	Clemson University:		control in conventional and organic
Dr. Matthew Cutulle Charleston SC vegetable production	Dr Matthew Cutulle	Charleston SC	vegetable production

		Weed management in turfgrass;
		herbicide resistance in <i>Poa</i>
		annua and Eleusine indica; diagnostic
University of Tennessee:		testing of herbicide resistant weeds;
Dr. Jim Brosnan	Knoxville, TN	plant growth regulators
		Developing IWM programs for
		cropping systems with herbicide
		resistance; weed ecology and
		population dynamics; problem-centric
		approaches to agronomic issues; broad-
Texas A&M University:		spectrum approaches to limiting
Dr. Muthu Bagavathiannan	College Station, TX	herbicide resistance development
		Herbicide resistant weed management
		in cotton and cotton rotation systems;
Texas Tech University:		Extension work in the Texas Southern
Dr. Peter Dotray	Lubbock, TX	High Plains
Ν	ortheastern Weed Scie	ence Society
		High commitment to creating a unique
		teaching environment, following a
		pedagogical style; environmental
		effects on invasives/weeds, including
Cornell University:		various biotic and abiotic factors, in
Dr. Toni DiTommaso	Ithaca, NY	natural Northeastern U.S. landscapes
		The Syngenta facility in Greensboro
		features a unique exposure to the weed
		science industry with Dr. McFarland
		(Head of Regulatory and Stewardship,
Syngenta:		North America), Dr. Moseley (Sr.
Drs. Janis McFarland &		Environmental Stewardship & Policy
Carroll Moselev and Dan		Manager), and Mr. Campbell (Team
Campbell	Greensboro, NC	Lead for Regulatory Affairs).
•	, , , , , , , , , , , , , , , , , , ,	Weed management in corn, soybeans.
		small grains, and sorghum (milo):
		drone research for weed detection in
North Carolina State Univ.:		row crops; water stress on crop-weed
Dr. Wes Everman	Raleigh, NC	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).
	orth Central weed Sci	Exposure to wood science in field
University of Illinois: Drs. Adam Davis, Aaron Hager & Pat Tranel	Champaign II.	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
		Weed science research bridging the
Purdue University: Drs. Bill Johnson & Bryan Young	West Lafayette, IN	basic and applied aspects of weed management; exposure to field, lab, greenhouse, and Extension weed science
Kansas State University:	•	Weed management in Kansas crop
Drs. Anita Dille & Dallas Peterson	Manhattan, KS	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.

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

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.