## PSS Student Research Symposium Date: April 18, 2022 Location: MCOM 359

Program Schedule

Time	Presentation Title	Speaker
Pre-symposium	Candidate Interview for B.L. Allen Endowed Chair in Pedology	
8:30 - 9:30 AM	Research Seminar: Integrating Climate, Landscape, and Hydrological Processes with Quantitative Pedology	Dr. Daniel Hirmas (University of California-Riverside)

9:30 - 10:00 AM Coffee social

Time		Presentation Title	Speaker	Student Level	Program Area
	10:00 AM	PSS Student Research Symposium: Opening Remarks & Introductions			
Session 1		Oral Session (Student Moderator: Billi Jean Petermann)			
	10:05 AM	Understanding the Dynamics of Soybean Root Nodule Development Using Single Cell Transcriptome Technology	Leonidas D'Agostino	MS	Institute of Genomics for Crop Abiotic Stress Tolerance
	10:20 AM	Crop Response and Control of $Amaranthus\ palmeri\ $ in HPPD-tolerant Cotton using Isoxaflutole	Maxwell Smith	MS	Weed Science
	10:35 AM	Development of tissue culture free genetic transformation and gene-editing platform in crops	Arjun Ojha	PhD	Institute of Genomics for Crop Abiotic Stress Tolerance
	10:50 AM	Comparison of Yields under Organic and Inorganic Vegetable Cultivation: Meta- analysis	Azeez Shaik	PhD	Horticulture
	11:05 AM				
Session 2		Oral Session (Student Moderator: Nathan Turner)			
		Simulating cotton growth and yield in different nitrogen rates using DSSAT in dryland cotton farming in West Texas	Bishnu Ghimire	PhD	Plant and Soil Science
		Influence of legume inclusion on greenhouse gas emissions from pasture systems in the southern high plains of Texas	Raavi Arora	PhD	Soil Science
	11:50 AM	Microwave plasma pre-treatment: a promising approach to improve cotton cellulose dissolution	Shaida Rumi	PhD	Fibers & Biopolymers
	12:05 PM	Genomic interactions governing novel salinity tolerance mechanisms in chromosome segment substitution lines of <i>Oryza sativa x Oryza rufipogon</i>	Swarupa Mandal	PhD	Crop Science
6		Lunch Break			
Session 3		Poster Session			
	1:30 - 3:00 PM	Exploring the Physicochemical Properties of Arsenic in Water Filtration Waste from Northwestern Costa Rica	Danira Garcia Gutierrez	BS	Soil Science
		Growth and Yield of Greenhouse Grown Lettuce in Response to Secondary Metabolite in Organic Soilless Production System	Fischel Lee	BS	Horticulture
		Competitive Ability in Silverleaf Nightshade, an Invasive Weed	Justin Dawsey	BS	Natural Resources Management
		Interactions between beneficial fungal symbionts in greenhouse tomatoes.	Nicholas Wilson	BS	Plant and Soil Science
		How environmental conditions affect nutrient availability in soils treated with swine waste	Noah Harrell; Madison Hernandez	BS	Agriculture
		Development of an efficient method for protoplast isolation, transfection, and gene editing form soybean roots	Chidinma Lois Nwoko	MS	Institute of Genomics for Crop Abiotic Stress Tolerance
		Evaluating the potential of hemp varieties in the West Texas conditions	Preetaman Bajwa	MS	Agronomy and Crop Science
		Biomass partitioning and water use efficiency of sweet corn under growth stage based irrigation and biochar rates in West Texas	Arjun Kafle	PhD	Horticulture
		$\label{thm:continuous} \begin{tabular}{ll} Utilization of the landrace Hopi to identify novel genes regulating reduced gland formation in upland cotton (\emph{Gossypium hirsutum}) \end{tabular}$	Avinash Shrestha	PhD	Plant Breeding
		Does biochar application affect soil properties and sweet corn production under deficit irrigation?	Manpreet Singh	PhD	Plant and Soil Science
		Ethanol Positively Modulates Photosynthetic Traits, Antioxidant Defense and Osmoprotectant Levels to Enhance Drought Acelimatization in Soybean	Md. Mezanur Rahman	PhD	Institute of Genomics for Crop Abiotic Stress Tolerance
		Effects of glutathione on waterlogging-induced damage in sesame crop (abstract withdrawn)	<del>Sanjida Keya</del>	PhD	Institute of Genomics for Crop Abiotic Stress Tolerance
-	3:00 PM	Effects of glutathione on waterlogging-induced damage in sesame crop (abstract withdrawn)  Awards Ceremony	Sanjida Keya	PhD	