Ironwood (Casuarina equisetifolia) decline conference

Exchange of knowledge and research discovery to ameliorate the impact of bacterial wilt in *Casuarina equisetifolia*

Unraveling the roles of *Ralstonia solanacearum* species complex, *Ganoderma australe*, wetwood bacteria, and termites in the decline of Guam's ironwood

Sponsors University of Guam

University of Guam Cooperative Extension Service Proceedings in A Journal of the University of Guam, Micronesia United States NIFA and Western Region SARE Program (WSARE)

Proceedings
Micronesia: Journal of the University of Guam

In-person and virtual conference (no charge) January 4-7, 2022

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Location:

University of Guam, Agriculture and Life Sciences Building (ALS) Room 127 Mangilao, GU

Tentative Program

Location-Date-Time	Activity	Presenter
Tuesday Jan 4		
	Breakfast on your own	
8:30 am	Pickup from hotel Island tour and visit decline sites Guam National Wildlife Refuge: Ritidian Unit (Natural stand of healthy ironwood trees)	Davis, Dr. Schlub
12:00 noon	Lunch	
1:00 pm	 Continuation of tour Ija Experiment Station (decline & exp. site) Windward Hills golf course (decline & exp. site) 	Dr. Schlub, Alex
4:30 pm	Return to UOG or hotel	

Wednesday		
Jan. 5		
8:00 am	Donuts, fruit, coffee, juice	
Room #125A (ALS)		
8:30-8:45 am	Start of conference	Dr. Yudin
Room #127 (ALS)		
8:45-9:15 am	"Overview: Guam's Ironwood (C.	Robert Schlub (in person
Room #127 (ALS)	equisetifolia) and its decline"	and virtual)
		University of Guam
9:15-9:45 am	"Statistical applications into Ironwood trees	Karl Schlub (virtual)
Room #127 (ALS)	(C. equisetifolia) decline on Guam and	Louisiana State University
	varietal selection"	(Thesis)
9:45-10:15 am	"Overview of Ralstonia	Mohammad Arif
Room #127 (ALS)	solanacearum species complex (RSSC) and	University of Hawaii
	population biology"	·
10:15 am	Break	
10:30-11:00 am	"Phylogenetic characterization and	Sujan Paudel (in person
Room #127 (ALS)	genealogy of strains in <i>Ralstonia</i>	and virtual)
()	solanacearum species complex (RSSC)	University of Hawaii (Thesis)
	associated with ironwood decline in Guam"	, ====== (======)
11:00-11:30 am	"Genome evolution of <i>Ralstonia</i>	Dario Arizala (virtual)
Room #127 (ALS)	solanacearum species complex (RSSC)	University of Hawaii (Thesis)
Room #127 (ALS)	associated with ironwood decline in Guam"	Chiversity of Hawaii (Thesis)
	associated with fromwood decime in Guain	
11:30-12:00 noon	"Field deployable recombinase polymerase	Shefali Dobhal (virtual)
Room #127 (ALS)	amplification assay and other methods used	University of Hawaii (Thesis)
,	at the University of Hawaii to differentiate	. , ,
	Ralstonia solanacearum species complex and	
	related bacteria from Ironwood samples"	
	related outcerns from from ood samples	
12:00 noon	Lunch	
1:00-1:30 pm	"Comparisons between Ironwood tree	Robert Schlub (in person
Room #127 (ALS)	decline and bacterial wilt in China and	and virtual)
	India"-	University of Guam
1:30-2:00 pm	"Occurrence and control of bacterial wilt in	Zhang Yong (virtual)
Room #127 (ALS)	C. equisetifolia coastal shelterbelts in	Chinese Academy of Forestry
11001111127 (1125)	Southern China"	conness readenly of releasily
2:00-2:30 pm	"Casuarina research in China"	Zhong Chonglu (virtual)
Room #127 (ALS)	Casual illa rescarett ill Cililla	Ret. Chinese Academy of
Room #127 (ALS)		Forestry
2:30 pm	Break	
2:45-3:15pm	"Disease management in high density	Abel Nicodemus (virtual)
Room #127 (ALS)	clonal plantations of Casuarina in India"	Indian Council of Forestry
		Res. & Ed.
2.15 2.15 nm	"Passible biggentral acousts for bestevialile	Ammuram Vanthilravan
3:15-3:45 pm Room #127 (ALS)	"Possible biocontrol agents for bacterial wilt disease in Casuarina"	Arumugam Karthikeyan (virtual)
KUUIII #127 (ALS)	disease iii Casuarina	
		Indian Council of Forestry Res. & Ed.
		135. & 24.
3:45-4:15 pm	Bacterial wilt of Eucalyptus	Teresa Coutinho (virtual)
Room #127 (ALS)		University of Pretoria
6:00 pm	Dinner at Meskla Chamoru Fusion Bistro	

Donuts, fruit, coffee, juice	
	Carrie Harmon (virtual)
procedures used at the University of Florida"	University of Florida
	Dr. Claudia Husseneder (in
1	person and virtual)
Ironwood trees (<i>C. equisetifolia</i>)"	Louisiana State University
	Garima Setia (in person
1 0	and virtual)
trees (C. equisetifolia) in Guam"	Louisiana State University
	(project)
	Jason Smith
decline in southern United States"	
(T) : 1	4 1D 1/:
"Tree varieties in place of dying Casuarina"	Anand Persad (in person
	and virtual) ACRT Services
	ACRI Services
"Climate and Island States"	Anand Persad (in person
Cilillate and Island States	and virtual)
	ACRT Services
	110101 20111002
Lunch	
Departure for Bernard Watsons Farm	
Yigo Experiment Station	
Evening- Chamorro Village or other venue	
Donuts, fruit, coffee, juice	
	Dr. Schlub, chair (in
	person and virtual)
WSARE Research Project team members	Dr. Schlub, research team
Adjournment of research team	
and other invited researchers	
	"Bacterial wilt in Florida and diagnostic procedures used at the University of Florida" "Introduction into termite biology, feeding and symbiosis and termites of Guam's Ironwood trees (<i>C. equisetifolia</i>)" "Investigation of potential role of termites as pathogen vectors in the decline of Ironwood trees (<i>C. equisetifolia</i>) in Guam" Break "Ganoderma associated with tree death and decline in southern United States" "Tree varieties in place of dying Casuarina" "Climate and Island States" Lunch Departure for Bernard Watsons Farm Yigo Experiment Station Evening- Chamorro Village or other venue Donuts, fruit, coffee, juice Conference summary of discussions and recommendations Adjournment of conference WSARE Research Project team members