

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
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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

Contacts:

Bob Schlub, office 1-671-735-2089, home 1-671-734-3346, rlschlub@triton.uog.edu
Julia Hudson, office 1-671-735-2072, cell 1-903-754-9353, HUDSONJ13789@triton.uog.edu
Liz Hahn, office 1-671-735-2072, cell 1-858-527-5868, hahne@triton.uog.edu
Alex Chingyan, office 1-671-735-2072, cell 1-671-797-5767, chingyana@triton.uog.edu

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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">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 Room #125A (ALS)	Donuts, fruit, coffee, juice	
8:30-8:45 am Room #127 (ALS)	Start of conference	Dr. Yudin
8:45-9:15 am Room #127 (ALS)	“Overview: Guam’s Ironwood (<i>C. equisetifolia</i>) and its decline”	Robert Schlub (in person and virtual) University of Guam
9:15-9:45 am Room #127 (ALS)	“Statistical applications into Ironwood trees (<i>C. equisetifolia</i>) decline on Guam and varietal selection”	Karl Schlub (virtual) Louisiana State University (Thesis)
9:45-10:15 am Room #127 (ALS)	“Overview of <i>Ralstonia solanacearum</i> species complex (RSSC) and population biology”	Mohammad Arif University of Hawaii
10:15 am	Break	
10:30-11:00 am Room #127 (ALS)	“Phylogenetic characterization and genealogy of strains in <i>Ralstonia solanacearum</i> species complex (RSSC) associated with ironwood decline in Guam”	Sujan Paudel (in person and virtual) University of Hawaii (Thesis)
11:00-11:30 am Room #127 (ALS)	“Genome evolution of <i>Ralstonia solanacearum</i> species complex (RSSC) associated with ironwood decline in Guam”	Dario Arizala (virtual) University of Hawaii (Thesis)
11:30-12:00 noon Room #127 (ALS)	“Field deployable recombinase polymerase amplification assay and other methods used at the University of Hawaii to differentiate <i>Ralstonia solanacearum</i> species complex and related bacteria from Ironwood samples”	Shefali Dobhal (virtual) University of Hawaii (Thesis)
12:00 noon	Lunch	
1:00-1:30 pm Room #127 (ALS)	“Comparisons between Ironwood tree decline and bacterial wilt in China and India”-	Robert Schlub (in person and virtual) University of Guam
1:30-2:00 pm Room #127 (ALS)	"Occurrence and control of bacterial wilt in <i>C. equisetifolia</i> coastal shelterbelts in Southern China"	Zhang Yong (virtual) Chinese Academy of Forestry
2:00-2:30 pm Room #127 (ALS)	“Casuarina research in China”	Zhong Chonglu (virtual) Ret. Chinese Academy of Forestry
2:30 pm	Break	
2:45-3:15pm Room #127 (ALS)	“Disease management in high density clonal plantations of Casuarina in India”	Abel Nicodemus (virtual) Indian Council of Forestry Res. & Ed.
3:15-3:45 pm Room #127 (ALS)	“Possible biocontrol agents for bacterial wilt disease in Casuarina”	Arumugam Karthikeyan (virtual) Indian Council of Forestry Res. & Ed.
3:45-4:15 pm Room #127 (ALS)	Bacterial wilt of Eucalyptus	Teresa Coutinho (virtual) University of Pretoria
6:00 pm	Dinner at Meskla Chamoru Fusion Bistro	

Thursday Jan. 6		
8:00 am Room #125A (ALS)	Donuts, fruit, coffee, juice	
8:30-9:00 am Room #127 (ALS)	“Bacterial wilt in Florida and diagnostic procedures used at the University of Florida”	Carrie Harmon (virtual) University of Florida
9:00-9:30 am Room #127 (ALS)	“Introduction into termite biology, feeding and symbiosis and termites of Guam’s Ironwood trees (<i>C. equisetifolia</i>)”	Dr. Claudia Husseneder (in person and virtual) Louisiana State University
9:30-10:15 am Room #127 (ALS)	“Investigation of potential role of termites as pathogen vectors in the decline of Ironwood trees (<i>C. equisetifolia</i>) in Guam”	Garima Setia (in person and virtual) Louisiana State University (project)
10:15 am	Break	
10:30-11:15 am Room #127 (ALS)	“Tree varieties in place of dying Casuarina”	Anand Persad (in person and virtual) ACRT Services
11:15-12:00 noon Room #127 (ALS)	“Climate and Island States”	Anand Persad (in person and virtual) ACRT Services
12:00 noon	Lunch	
1:00-2:30 pm	Departure for Bernard Watsons Farm	
3:00-4:30pm	Yigo Experiment Station	
5:00-7:00 pm	Evening- Chamorro Village or other venue	
Friday Jan. 7		
8:00 am Room #125A (ALS)	Donuts, fruit, coffee, juice	
8:15-10:30 am Room #127 (ALS)	Conference summary of discussions and recommendations	Dr. Schlub, chair (in person and virtual)
10:30 am	Adjournment of conference	
10:30-11:30 am	WSARE Research Project team members	Dr. Schlub, research team
11:30 am	Adjournment of research team	
Saturday Jan. 8		
	Departure of research project team members and other invited researchers	