

XXI INTERNATIONAL CONGRESS OF HELICONIAS
 December 4, 5 and 6 December 2022
Heliconia Society International
Botanical Garden of Quindío-JBQ Calarcá, Quindío
Bogota Botanical Garden
University of Quindío
Colombia

The workshops will be on Sunday, December 4, thematic:
1. Basics of scientific illustration:Pilar Sepúlveda (15 participants \$130,000)
2. Cultivation and management of Heliconias:Gustavo Morales (20 participants \$100,000)

ACADEMIC PROGRAM
Day 1

Date Monday December 5	Activity	Responsible
8:00-9.30am	Event setup cultural event	Dr. Alberto Gomez Mejia ,President Botanical Garden of Quindío- JBQ Dr. Luis Fernando Polania ,Vice Chancellor of Extension and Social Dilo University of Quindío carlablack ,President Heliconia Society International
9:30-10:30 a.m.	master conference Heliconias: endemism and conservation status considerations in Colombia	Dr Gustavo Morales Bogotá Botanical Garden Researcher gustavmorales@gmail.com
10:30-11:00 a.m.	Heliconias native to the Department of Cundinamarca, Colombia	Juan Camilo Ordonez Bogota Botanical Garden
11:00 -11:30 a.m. COFFEE BREAK COFFEE/WATER STATION		

11:30-12:00 noon	Novelties in the Family Costaceae	David Skinner Owner: Le Jardin Ombragé, USA skinnerd@nettally.com
12:00-2:00 p.m.	BREAK-LUNCH	
2:00-3:00 p.m.	master conference Commercial Heliconias: Genetic diversity, market opportunities and phytoremediation	Andrés Duque Nivia Ph.D aduque07@gmail.com Liliana Isaza Ph.D lilisaza06@gmail.com Biotechnology Laboratory Research Group Technological University of Pereira-UTP
3:00-3:40 p.m.	Classification and interrelationships in Zingiberales: Past and Present	Dr Duane Kolterman Botany in the Biology Department at the University of Puerto Rico kolterman@upr.edu
3:40-4:00 p.m.	Realization of the Master plan of the Summit Botanical Garden of Panama	Dr Marianne Akers Panama Botanical Garden akers.marianne@gmail.com
4:00-4:30 p.m.	COFFEE BREAK COFFEE/WATER STATION	
4:30-5:00 p.m.	Surveying Alpinia species for viral infections and their association with Alpinia decline disease	Dr Russell Galanti University of Hawaii at Manoa, Komohana Research and Extension Center rgalantini@hawaii.edu
5.00-5:30 p.m.	Diversity in the world of Heliconia caribaea Lam. (Heliconiaceae)	Hector Mendez Caratini Heliconia Society of Puerto Rico

		hmendezcaratini@yahoo.com
5:00-5:30pm	Taxonomy of the wild species of Zingiberales of the Coffee Cultural Landscape-PCC, Quindío Region	Maria del Pilar Sepúlveda Nieto Ms.C. Master of Science-Plant Biology, University of Quindío
5:30-6:00 p.m.	Study of gene expression in heliconias associated with abiotic stress due to heavy metals	Liliana Isaza Ph.D. Biotechnology Research Group Technological University of Pereira-UTP

Day 2

Date	Exercise	Responsible
Tuesday, December 6		
8:00-9:00 a.m.	Master Conference (Virtual Conference) Advances in the revision of the genus Heliconia	Dr. W. John Kress Smithsonian Institution, USA kressj@si.edu
9:00-9:30 a.m.	Floral morphometry and caloric supply of Heliconia mutisiana Cuatrec. (Heliconiaceae)	Laura Guerrero, Biologist University of Quindío, Colombia leguerrero89@gmail.com
9:30-10:00 a.m.	Interaction between Heliconia and its pollinators the hummingbirds (virtual conference)	Dr Gary Stiles National university of Colombia fgstiles@unal.edu.co
10:00-10:30 a.m.	COFFEE BREAK COFFEE/WATER STATION	
10:30-11:00 a.m.	Floriculture for Enhancing Profitability of Coconut Gardens (virtual conference)	Dr Nihad Shukoor ICAR - Central Plantation Crops Research Institute. Kasaragod, Kerala, India nihadshukoor@gmail.com

11:00am-11:30am	Forcing Curcuma flowers (zingiberaceae) (virtual conference)	Dr Richard Criley University of Hawaii, USA criley@hawaii.edu
11:30-12:00 a.m.	Brunei gingers (virtual conference)	Colton Collins MSc Owner: Plant Group Hawaii info@plantgrouphawaii.com
12:00-2:00 p.m.	BREAK-LUNCH	
2:00-3:00 p.m.	master conference Productive Model and Export Process of Heliconias and Foliage	Rodrigo Ramirez Ing Agronomist-exporter grower Manizales, Columbia cigdltda@gmail.com
3:00: 3:30 p.m.	Las Zingiberales: An example of appropriation of the territory	Maria del Pilar Sepúlveda Nieto Ms.C. Master of Science-Plant Biology, Universidad del Quindío, Colombia
3:30-4:00 p.m.	Heliconia in Brazil: research and the current situation (virtual conference)	Dr. Vivian Loges Federal Rural University of Pernambuco – UFRPE, Brazil vloges@yahoo.com
4:00-4:30 p.m.	COFFEE BREAK COFFEE/WATER STATION	
4:30-5:00 p.m.	How does Heliconia tortuosa Griggs (Heliconiaceae) select its pollinator? (virtual conference)	matthew betts Professor, Forest Ecosystems and Society, Oregon State University, USA matthew.betts@oregonstate.edu
5:00-5:30pm	Experiences and importance of botanical exploration	Dr. Carla Black Heliconia Society International heliconiatortuosa@gmail.com

5:30-6:00 p.m.	Genre Costus: An approach to its diversity	Dr. Eugenio Valderrama Cornell University, United States e.valderrama.e@gmail.com
CLOSURE OF THE EVENT: Cultural act, Cocktail and Auction		

POSTER MODALITY SPEAKERS:

1. Comparative study of the fruits and viability of the seeds of 15 species of the genus Heliconia (Heliconiaceae)

Santiago Arango and Ashley León, Biology Students, University of Quindío. Colombia

2. Genus Costus (Costaceae)

Chelsea Specht Ph.D. Department of Biological Sciences, California State University, East Bay, Hayward, CA, United States

Eugenio Valderrama Ph.D. School of Integrative Plant Science, Section of Plant Biology and the LH Bailey Hortorium, Cornell University, Ithaca, NY, United States.

3. Research with Zingiberales as cut flowers: Development and records of cultivars of Ettiingera (Zingiberaceae)

Charleston Goncalves. Scientific Researcher, Agronomic Institute (IAC), Brazil

Vivian Loges Ph.D. International Society for Horticultural Science, Univ.Federal Rural de Pernambuco, Recife, Brazil.

4. Growing Strelitzia reginae (Strelitziaceae) as a cut flower

Rich Criley. Department of Tropical Plant & Soil Sciences. Honolulu University, Hawaii, United States

5. Technology at the service of conservation.

Colton Collins M.Sc. Plant Group, Hawaii, United State