

# WOC 22

## SPEAKERS

Guayaquil Convention Center  
November 8-12, 2017



22<sup>ND</sup> WORLD ORCHID CONFERENCE

On-Line Registration: [www.woc22.com](http://www.woc22.com)

# SPEAKERS AND TITLES

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**Confronting the genomics revolution head-on: what we can learn about what problems are bothering orchid species**

Mark W. Chase

**Orchids and the persistent instability principle**

James D. Ackerman

**The Orchid Specialist Group at the start of the new Quadrennium**

Michael F. Fay

**The phragmipediums of Ecuador: their culture, eco-biology, and taxonomy**

Frank Cervera

**Reproductive biology and floral anatomy associated with pollinator attraction in *Phragmipedium longifolium* from Costa Rica**

Melissa Díaz-Morales, Franco Pupulin, and Melania Fernández

**Revisiting the *Phragmipedium schlimii* complex**

Eliseo Tesón and Guido J. Braem

**Observations on drought-related decline of *Cypripedium* populations in northwest Yunnan, China**

Holger Perner

**Culture of *Phragmipedium kovachii***

Alfredo Manrique

**Breeding with the genus *Phragmipedium* in second and higher generations**

Olaf Gruss

***Dracula* - at home and in captivity**

Johan Hermans

***Lepanthes* of Colombia: endemic areas, richness, and distribution**

Juan Sebastián Moreno, Nicolas Hazzi, Esteban Domínguez Vargas, and Sebastián Vieira-Uribe

**Floral anatomy and evolution of pollination syndromes in *Lepanthes* and close relatives**

Diego Bogarín, Melania Fernández, Franco Pupulin, and Barbara Gravendeel

**How many species of Pleurothallidinae are there?**

Franco Pupulin, Diego Bogarín, and Adam P. Karremans

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**The Pleurothallidinae: extremely high speciation driven by pollinator adaptation**

Adam P. Karremans and Melissa Díaz-Morales

**Field investigations of *Dendrobium* section *Oxyglossum* in the highlands of Papua New Guinea**

Roland Schettler

**Biogeography of Australasian dendrobiums**

Peter B. Adams

**The World Checklist of Orchids, its offspring and successor**

Rafaël Govaerts

**What can be done to stabilize nomenclature in the orchid hybrid register?**

Julian M. H. Shaw

**A broader interpretation of *Odontoglossum* in order to avoid creating new names**

Stig Dalström and Wesley E. Higgins

**Hybridization, natural (and artificial) introgression as a process for the origin of species and lineages in Laeliinae**

Cássio van den Berg

**Multiple origins in time and space of environmental sex determination in Darwin's favorite orchids (Catasetinae)**

Oscar Alejandro Pérez Escobar, Marc Gottschling, Gerardo Salazar, and Günter Gerlach

**Phylogenomics of *Epidendrum*: untangling a Neotropical mega-diversification**

Eric Hágsater, Carolina Granados, Gerardo A. Salazar, Susana Magallón, Cassio van den Berg, Emily Moriarty Lemmon, and Alan R. Lemmon

**Phylogenetic relationships among *Liparis* species of Indonesia, Hawaii, and North America**

Ingelia P. White, Hongwei Li, Marisa Maemori, Tom A. Ranker, Clifford Morden, Kenneth M. Cameron, Irawati, and Eka M. D. Rahayu

**The hairy taxonomy of *Eria***

André Schuiteman

**An artist on the orchid trail**

Carol Woodin

**The RHS Orchid Committee and its artists: a history of the RHS orchid award paintings**

Clare Hermans

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**Management strategy for fertilizing *Phalaenopsis* for growers based on novel scientific findings**

Yao-Chien Alex Chang

**Experiences in growing *Odontoglossum* and *Anguloa***

Felipe Pastor-Chacón and Paola Pastor-Chacón

**Issues for judging**

Charlie McMonagle and Peter B. Adams

**The latest hybridizing of novelty *Phalaenopsis* for their color and fragrance**

Peter Lin

***Cattleya* breeding over 30 years in Japan**

Munekazu Ejiri

**Cool-growing Australasian *Dendrobium* hybrids**

Sheryl D. Lawson

**First Ladies and their cattleyas**

A. A. Chadwick and Arthur E. Chadwick

***Oncidium fuscatum* and its hybrids**

Jean Allen-Ikeson

**Orchids of El Salvador: challenges for conservation in a highly deforested country**

José Linares and José Yader S. Ruiz Cruz

**Terrestrial orchid diversity and conservation in Western Ghats, South India**

M. Jadeyegowda, M. Jhenkhar, M. N. Ramesh, M. Kaveriamma, C. G. Kushalappa, V. G. Sunil, Charanakumar, P. Prashanth, Yusuf Abbas, and Shashibushan Mishra

**Prioritization of new orchid conservation sites in Colombia by modeling the nationwide distribution of orchid diversity**

Joe E. Meisel

**Knowledge and management of epiphytic orchids in Tenderio, land belonging to the Indigenous Community of Santiago Tingambato, Michoacán, México**

Irene Ávila-Díaz

**Last chance to see? The race to save the spectacular Albertina Sisulu Orchid, *Brachycorythis conica* subsp. *transvaalensis*, a critically endangered South African terrestrial orchid**

Craig I. Peter, Karsten Wodrich, Bill Mincher, and Andrew Hankey

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***In vitro* conservation system for *Prosthechea vitellina* through somatic embryos encapsulation**

Hilda Lee, Joaquín Murguía, Otto Leyva, Ma. Elena Galindo, Ivonne Landero, Teresita Ramírez, and Rosario Dávila

**Successful reintroduction of two critically endangered species, *Cymbidium bicolor* subsp. *pubescens* and *Robiquetia spathulata*, in Singapore**

Tim W. Yam

**Orchid conservation the Writhlington way**

Jacob Coles

**Orchid micropropagation at King Charles I School, UK**

Philip Seaton, Lisa Gray, and Louise Gage

**Developing an orchid-centered education program in a botanic garden**

Lisa Gray and Philip Seaton

**Effects of climate change on the distribution of the Cuban *Encyclia***

Ángel Vale, Danny Rojas, Julio C. Álvarez, Rafael A. Pérez-Obregón, and Manuel A. Soto

**Epiphyte biomass in northern Andean forests**

Ana María Benavides, Daniel Zuleta, and Juan Carlos Benavides

**The mosaic cycles of ecosystems and population strategies of terrestrial orchids**

Ekaterina Zheleznaya

**Are mycorrhizal communities associated with tropical epiphytic orchids structured around keystone mycorrhizal species?**

Juan Pablo Suárez, Stefania Cevallos, Paulo Herrera, and Aminael Sánchez-Rodríguez

**The fascinating world of orchid pollination**

Ron McHatton

**The deceptive rewards of (growing) lesser known Stanhopeinae**

Thomas Mirenda

**Investigating the pollination biology of a long-lived island endemic epiphyte in the presence of an adventive alien pollinator**

M. Christine Rose-Smyth

***Paphinia* Lindl. (Orchidaceae: Stanhopeinae) – a genus of scentless perfume orchids?**

Heiko Hentrich, Aneta Dick, Luise Hagenguth, Lisa Preiss, Jochen Scherr, Boris Schlumpberger, Stefan Doetterl, Irmgard Schaeffler, and Gerhard Gottsberger

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**Pollination mechanisms in *Telipogon* (Orchidaceae): from sexual deception to self-pollination**

Carlos Martel

**Pollination biology of *Masdevallia coccinea* and *M. ignea* in Colombia**

Mónica Adriana Cuervo Martínez, María Argenis Bonilla Gómez, and Rodrigo Bustos Singer

**Application of species distribution models on orchid data from Colombia**

Zuzana Štípková, Marta Kolanowska, Dušan Romportl, and Pavel Kindlmann

**Is Costa Rica the land of *Sobralia*?**

Jorge Warner, Robert L. Dressler, Melania Fernández, Sofia Granados, Elvira Salas, and Franco Pupulin

**The Lima Orchid**

Susi Spittler

**Generation and characterization of transgenic *Brassolaeliocattleya* Raye Holmes ‘Mendenhall’ expressing the coat protein gene of Cymbidium mosaic virus**

Ingelia White, Hongwei Li, Nyan Stillwell, Yun J. Zhu, Heather McCafferty, Fengyong Zhou, Leslie Baker, Alisa Sheriff, Kimberley Chinen, and David Christopher

**Unraveling the genetic basis of floral symmetry variation in Asparagales with an emphasis on Orchidaceae**

Yesenia Madrigal Bedoya, Juan Fernando Alzate, and Natalia Pabón-Mora

**Tourism possibilities of the orchids of Paclín, Argentina**

Pedro R. Boggiatto, María C. Torres, Bernabé González, and Jorge Argañaraz

**Cool at the equator: the history and potential of species from divergent temperature zones in orchid breeding**

James E. Keach, Mei Leng Lim, Jassy Phua, Siti Nurziana Yacob, Andrea Kee, and Kiat W. Tan

## ANDEAN ORCHIDS SYMPOSIUM

**Current state and conservation efforts of Chilean orchids**

Mauricio A. Cisternas

**The three main regions of greatest orchid diversity in Ecuador**

Pepe Portilla

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## **Patterns of orchid diversity from the páramo to the mangroves in El Oro, southwest Ecuador**

Francisco Tobar-Suarez, Michaela H. Yanouch, and Mario H. Yáñez- Muñoz

## **Orchids as guides for the conservation of unique Andean microhabitats**

Lou Jost

## **Orchid conservation in Colombia**

Andrea Niessen

## **The orchid flora of Cauca-Colombia: inventory and priorities for conservation**

Nhora Helena Ospina-Calderón, María Andrea Sánchez-Chaparral, Bernardo R. Ramírez, José Fernando Restrepo Ortiz, Andrés J. Vivas, Asociación Payanesa de Orquideología

## **Towards an understanding of patterns of diversity and distributions of orchids in the Orinoco and Eastern Andes regions: The department of Meta as a case study**

Miguel Macgayver Bonilla Morales and Johan de Jesús Mosquera Hernández

## **Orchids collected during the botanical expeditions to Carpish and Chinchao, Peru**

Delsy Trujillo

## **Conservation of orchids in Chaglla, Peru**

Sofia Arevalo

## **Fragrances and their composition in euglossine-pollinated Neotropical orchids**

Günter Gerlach

## **Orchid survival in the wild**

Alexander Hirtz

## **VANILLA SYMPOSIUM**

### **New insights on *Vanilla* (Vanilloideae) evolution and systematics**

Ken Cameron

### **The use of multiple data sources to elucidate the identity of Brazilian vanillas (Vanilloideae, Orchidaceae)**

Emerson R. Pansarin

### **The genus *Vanilla* in El Salvador**

José Yader S. Ruiz Cruz

### **The genus *Vanilla* in the Colombian Amazon**

Andrés A. Barona-Colmenares, Lorena Quintero-Barrera, Rafael Arévalo B., and Nicola S. Flanagan

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**Implementation of an integrated strategy for the conservation and sustainable use of wild *Vanilla* species**

Nicola S. Flanagan, P. Chavarriaga, and Ana Teresa Mosquera-Espinosa

***In vitro* and *ex situ* gene banks for Colombian vanillas**

Paul Chavarriaga, Francisco J. Sánchez, and Nicola S. Flanagan

**Coexistence of *Vanilla* species in the Choco Wet Forest (Western Colombia) and implications for harvesting**

Ana María Benavides, Eva Ledezma, Erika Restrepo, and Catalina Ramirez

**Metabolomic and gene expression analysis in *Vanilla planifolia***

Tony L. Palama, Hippolyte Kodja, and Isabelle Fock-Bastide

**Establishment and applications of an *ex situ* culture collection for *Vanilla* mycorrhizal and endophytic fungi**

Ana Teresa Mosquera-Espinosa and Nicola S. Flanagan

***Vanilla*: Only for pastry or for posterity?**

Rebeca A. Menchaca García, Leticia Margarita Cano Asseleih, and José Yader S. Ruiz Cruz

**Modern models of sustainable vanilla farming: successes, challenges, and potential solutions**

Patricia Rain

***Vanilla*: wild species in Madre de Dios, Perú**

Midalit Medina

**Conserving Mexican *Vanilla* species: *ex situ* and *in situ* gene banks at the Universidad Veracruzana, Mexico**

Miguel A. Lozano Rodríguez, Rebeca A. Menchaca García, and José L. Alanís Méndez

**It takes a community of microorganisms to grow and cure vanilla**

Henry Karczynski

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# CONFERENCE PLANNER

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## SET UP

NOV 4 | SAT. - NOV 6 | MON. 08:00-20:00



## OPENING CEREMONY

NOV 7 | TUE. 19:00-22:00



## JUDGING

NOV 7 | TUE 09:00-18:00



## EXHIBITION (Open to the public)

NOV 8 | WED - NOV 12 | SUN 09:00-19:00



## CONFERENCE

NOV 8 | WED - NOV 10 | FRI 09:00-17:00 NOV 11 | SAT 09:00-15:15



## CONFERENCE CLOSING CEREMONY

NOV 11 | SAT 15:15-16:00



## GUAYAQUIL NIGHT

NOV 9 | THU 19:00-22:00



## GALA DINNER

NOV 11 | SAT 19:00-22:00



## BREAK DOWN

NOV 13 | SUN 08:00-20:00

