



# XIII Colloquium on Plant Ecophysiology

Parque Katalapi, January 21-24, 2018, Región de Los Lagos Chile

## General Program

Sunday Jan 21	Monday Jan 22	Tuesday Jan 23	Wednesday Jan 24
	<b>Breakfast</b>	<b>Breakfast</b>	<b>Breakfast</b>
	9:00-9:30 Mini-lecture <b>Alfredo Saldaña</b>  Potential for evolutionary responses to the decrease in the rainfall regime in vascular epiphytes functional traits in the temperate forest	9:00-9:30 Tribute to <b>Elisa Corcuera</b> and <b>Nicolás Franck</b>	9:00-9:30 Mini-lecture <b>Don A White</b>  Transpiration and canopy conductance of two <i>Nothofagus</i> species in central Chile
	9:30-10:30 <b>Short communications 1</b>	9:30-10:30 <b>Short communications 2</b>	9:30-10:00 Mini-lecture <b>León Bravo</b>  Unrevealing the impact of regional warming on Antarctic vascular plants
			10:00-10:30 <b>Short communications 3</b>
	<b>10:30 Coffee Break</b>	<b>10:30 Coffee Break</b>	<b>10:30 Coffee Break</b>
	11:30-12:00 Mini-lecture <b>Frida Piper</b>  Does tree growth depend on stored resources in temperate regions?	11:30-12:00 Mini-lecture <b>Gerhard Zotz</b>  Heteroblasty? - Never heard of!	11:30-12:00 Mini-lecture <b>Luisa Bascuñan</b>  Nitrogen physiology during senescence in Quinoa

	<p>12:15-13:00 Noon Lecture <b>Mark Olson</b></p> <p>Plant height and hydraulic vulnerability to drought and cold</p>	<p>12:15-13:00 Noon Lecture <b>Marilyn Ball</b></p> <p>Die-back of mangrove forest during extreme drought</p>	<p>12:15-13:00 Closing Lecture <b>John Bishop</b></p> <p>Effects of anthropogenic N deposition on plant traits and plant-insect interactions in primary and secondary succession at Mount St. Helens</p>
	13:00 Lunch	13:00 Lunch	13:30 Farewell lunch
	<p>15:00-15:30 <b>Alex Fajardo</b></p> <p>The advantageous of short-stature trees</p>	<p>15:00-15:30 Mini-lecture <b>Rafael Coopman</b></p> <p>The secret nocturnal life of <i>Avicennia marina</i></p>	
	<p>15:30-16:15 Afternoon Lecture <b>Rafael Rubilar</b></p> <p>Gas Exchange and growth responses of juveniles of <i>Eucalyptus</i> under contrasting conditions of water availability</p>	<p>15:30-16:15 Afternoon Lecture <b>Lohengrin Cavieres</b></p> <p>Assessing impacts of invasive species in the Andes</p>	16:00 Departure
16:00 Registration	16:15 Coffee Break	16:15 Coffee Break	
<p>19:00 Welcome remarks <b>Luis Corcuera</b></p> <p>19:30 - 20:15 Opening Lecture <b>Christian Körner</b></p> <p>Is the biosphere carbon limited?</p>	<p>17:30-18:15 Evening Lecture <b>Bruce Osborne</b></p> <p>Intra-specific variation in the response of plants to elevated CO<sub>2</sub> and its significance</p>	<p>17:30-18:15 Evening Lecture <b>Jaume Flexas</b></p> <p>Plant ecophysiology around the world: testing the trade-off between photosynthesis and desiccation tolerance</p>	

20:15 "Cata en Kata" and Dinner	19:00 Dinner	19:00 Dinner	
	20:30-21:30 Discussion <i>Lohengrin Cavieres</i>  Katalapi 2019	20:30-21:30 Discussion <i>Hernán Mladinic</i>  "Private Land Conservation"	

## Full Program

### January 21 (Sunday)

#### Colloquium opening

19:00 - 19:30 **Corcuera Luis** "Opening remarks and welcome" Parque Katalapi, Chile.

19:30 - 20:15 **Opening Lecture by Christian Körner** "Is the biosphere carbon limited?" University of Basel.

20:15 "Cata en Kata" and Dinner

### January 22 (Monday)

9:00 - 9:30 **Mini-Lecture by Alfredo Saldaña** "Potential for evolutionary responses to the decrease in the rainfall regime in vascular epiphytes functional traits in the temperate forest" Universidad de Concepción, Chile.

9:30 - 10:30 **Short communications 1**

Enrique Ostria "Clustering of Big data and network analysis: Applications for Plant Ecophysiology studies" Universidad de la Frontera, Chile.

Rovida-Kojima E.A, Guevara A, González C.V, Mundo I.A & Giordano C.V " Response to short-term water stress in 8 Poplar clones: heigth growth, sensitivity and drought avoidance mechanisms" IADIZA, CCT Mendoza CONICET , Argentina.

Tomás I. Fuenzalida, Ana I. Vargas & Pilar M. Gil "Stem electrical potential variations might help detect drought stress in avocado (*Persea americana* Mill.) plants" Pontificia Universidad Católica de Chile and University of Florida.

Anadon-Rosell A, Hasibeder R, Palacio S, Mayr S, Ingrisich J, Ninot J, Nogués S & Bahn M "Short-term carbon allocation in subalpine dwarf shrubs and their responses to experimental drought" Universidad Barcelona, España.

10:30 - 11:30 **Coffee Break**

11:30 - 12:00 **Mini-Lecture by Frida Piper** "Does tree growth depend on stored resources in temperate regions?" Centro de Investigación en Ecosistemas de la Patagonia, Chile.

12:00-12:45 **Noon Lecture by Mark Olson** "Plant height and hydraulic vulnerability to drought and cold" Universidad Nacional Autónoma de México, México.

13:00 - 15:00 **Lunch**

15:00-15:30 **Mini-Lecture by Alex Fajardo** "The advantageous of short-stature trees" Centro de Investigación en Ecosistemas de la Patagonia, Chile.

15:30 - 16:15 **Afternoon Lecture by Rafael Rubilar** "Gas Exchange and growth responses of juveniles of Eucalyptus under contrasting conditions of water" Universidad de Concepción, Chile.

16:15 - 17:30 **Coffee Break**

17:30-18:15 **Evening Lecture by Bruce Osborne** "Intra-specific variation in the response of plants to elevated CO<sub>2</sub> and its significance" U. College Dublin, Ireland.

19:00 - 20:30 **Dinner**

20:30 - 21:30 **Night discussion by Lohengrin Cavieres** "The future of Plant Ecophysiology courses and Colloquia in Katalapi" Universidad de Concepción, Chile.

## **January 23 (Tuesday)**

09:00 - 09:30 **Tribute to Elisa Corcuera and Nicolás Franck by Rafael Coopman and Claudio Pastenes.**

9:30 - 10:30 **Short communications 2**

Parra-Darmendrail L, Briceño V & Paula S "Functional and taxonomic diversity in high andean plant communities along an elevation gradient" Universidad Austral de Chile, Chile.

Mendez-Espinoza AM, Garriga M, Romero S, Estrada F, Alcaino M, Lobos G & Del Pozo A "Effect of water stress in four cereals species grown in greenhouse" Universidad de Talca, Chile.

Castro B & Gaxiola A "Anatomical coordination between stomatal traits and hydraulic conduits, why is this relevant?" Pontificia Universidad Católica de Chile, Chile.

Biruk L, Guevara A, Gonzalez C, Fernández M.E & Giordano C "Allometry of phreatophyte and non phreatophyte woody species from the Central Monte Desert in response to water availability" Argentina.

10:30 - 11:30 **Coffee Break**

11:30 - 12:00 **Mini-lecture by Gerhard Zotz** "Heteroblasty? - Never heard of!" Universidad de Oldenburg, Alemania.

12:00-12:45 **Noon Lecture by Marilyn Ball** "Die-back of mangrove forest during extreme drought" Australian National University, Australia.

13:00 - 15:00 **Lunch**

15:00-15:30 **Mini-lecture by Rafael Coopman** "The secret nocturnal life of *Avicennia marina*" Universidad Austral de Chile, Chile.

15:30 - 16:15 **Afternoon Lecture by Lohengrin Cavieres** "Assessing impacts of invasive species in the Andes" Universidad de Concepción, Chile.

16:15 - 17:30 **Coffee Break**

17:30-18:15 **Evening Lecture by Jaume Flexas** "Plant ecophysiology around the world: testing the trade-off between photosynthesis and desiccation tolerance" Universidad de las Islas Baleares, España.

19:00 - 20:30 **Dinner**

20:30 - 21:30 **Night discussion by Hernán Mladinic** "Private Land Conservation" Tompkins Conservation, Chile.

### **January 24 (Wednesday)**

09:00 - 09:30 **Mini-Lecture by Don A White** "Transpiration and canopy conductance of two *Nothofagus* species in central Chile" Murdoch University, Australia.

9:30 - 10:00 **Mini-Lecture by León Bravo** "Unrevealing the impact of regional warming on Antarctic vascular plants" Universidad de la Frontera, Chile.

10:00 - 10:30 **Short communications 3**

Pastenes C "Hydraulic traits and xylem morphoanatomy: grapevines evidence" Universidad de Chile, Chile.

Paula S, Fritz R, Parra L.A, Morales S, Cárdenas A, Lusk C "Functional regeneration patterns along the forest dynamics in the temperate rainforest of southern South America" Universidad Austral de Chile, Chile.

10:30 - 11:30 **Coffee Break**

11:30 - 12:00 **Mini-Lecture by Luisa Bascañan** "Nitrogen physiology during senescence in Quinoa" Universidad de Concepción, Chile.

12:00-12:45 **Closing Lecture by John Bishop** "Effects of anthropogenic N deposition on plant traits and plant-insect interactions in primary and secondary succession at Mount St. Helens" Washington State University, EE.UU.

13:30 **Farewell Lunch**

16:00 **Departure**