



XII Colloquium on Plant Ecophysiology

Parque Katalapi, January 19-21, 2017, Región de Los Lagos Chile

General Program

Thursday Jan 19	Friday Jan 20	Saturday Jan 21
9:00-11:00 Arrival and registration	08:00 <i>Breakfast</i>	08:00 <i>Breakfast</i>
	9:00-9:30 Mini-Lecture Nicolás Franck <i>Effect of source: sink balance on leaf and plant carbon dynamics of three fruit trees with different phloem loading strategies.</i>	9:00-9:30 Mini-Lecture Lohengrin Cavieres <i>"Invasive plants in the central Chilean Andes: patterns, mechanisms and consequences"</i>
10:30 <i>Coffee Break</i>	9:30-10:30 Short communications 2	9:30-10:30 <i>Morning Lecture</i> Alfredo Saldaña <i>"Functional Ecology of vascular epiphytes in the Southern temperate forest"</i>
	10:30 <i>Coffee Break</i>	10:30 <i>Coffee Break</i>
11:15-12:00 Noon Lecture Bruce Osborne <i>"Gunnera invasions and what they can tell us about evolutionary and ecosystem processes"</i>	11:30-12:00 Mini-Lecture Alex Fajardo <i>"Competition or facilitation: the ultimate role of cluster roots for Proteaceae species and others"</i>	11:30-12:00 Mini-Lecture Claudio Pastenes <i>"Water relations in grapevines"</i>
	12:00-12:45 Noon Lecture María Fernanda Pérez <i>"Comparative phylogeography of central Chile species: influence of functional traits on plant response to quaternary climatic fluctuations"</i>	12:00-12:45 Closing Lecture Jeroni Galmés <i>"Ecophysiological causes and consequences of RUBISCO variations in plants"</i>

<p>12:00-12:30</p> <p><i>Mini-Lecture</i> Verónica Briceño <i>Now, later or never: When do seeds of Alpine species germinate?</i></p>		
<p>13:00 Lunch</p>	<p>13:00 Lunch</p>	<p>13:30 Farewell lunch</p>
<p>15:00-15:30</p> <p><i>Mini-Lecture</i> Alejandra Zúñiga <i>"Plant-soil-microorganism interactions on native Southern South America species"</i></p>	<p>15:00-15:30 <i>Mini-Lecture</i> Patricia Sáez <i>"Increasing temperature and its effects on photosynthetic performance of Antarctic vascular plants: field and laboratory conditions"</i></p>	
<p>15:30-16:30</p> <p>Short communications 1</p>	<p>15:30-16:30</p> <p>Short communications 3</p>	<p>16:00</p> <p>Departure</p>
<p>16:30 Coffee Break</p>	<p>16:30 Coffee Break</p>	
<p>17:30-18:15</p> <p><i>Evening Lecture</i> Frida Piper <i>"C dynamics in deciduous and evergreen species: Is it coordinated with nutrient storage?"</i></p>	<p>17:30-18:15</p> <p><i>Evening Lecture</i> Juan Pedro Ferrio <i>"Water on the rocks: exploring plant's ability to uptake water from dry soils"</i></p>	
<p>19:00</p> <p><i>"Cata en Kata"</i> and Dinner Marino Cabrera Claudio Pastenes</p>	<p>19:00 Dinner</p>	
	<p>20:30-21:30</p> <p>Night discussion Luis J. Corcuera <i>"The future of Plant Ecophysiology courses and Colloquia in Katalapi"</i></p>	

Full Program

January 19 (Thursday)

Colloquium opening

11:00 - 11:15 **Corcuera Luis** "Opening remarks and welcome" Universidad de Concepción, Chile.

11:15 - 12:00 **Opening Lecture by Bruce Osborne** "Gunnera invasions and what they can tell us about evolutionary and ecosystem processes" University College Dublin.

12:00 - 12:30 **Mini-lecture by Verónica Briceño¹, Lohengrin Cavieres², Yessica Perez¹ & Daniel Harris-Pascal¹** "Now, later or never: When do seeds of Alpine species germinate?" (1) Universidad Austral de Chile, Chile. (2) Universidad de Concepción, Chile.

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

15:00 - 15:30 **Mini-Lecture by Alejandra Zúñiga** "Plant-soil-microorganism interactions on native Southern South America species" Universidad Austral de Chile, Chile.

15:30 - 16:30 **Short communications 1:**

Claudia Reyes-Bahamonde^{1,2}, Frida I. Piper^{2,3} & Lohengrin A. Cavieres^{1,2} "Variación estacional y altitudinal de Carbohidratos no estructurales en *Phacelia secunda* Gmel creciendo en los Andes de Chile central" (1) Universidad de Concepción, Chile. (2) Instituto de Ecología y Biodiversidad, Chile. (3) Centro de Investigaciones en Ecosistemas de la Patagonia (CIEP), Chile.

Fritz R., Parra L., Paula S. & Jiménez-Castillo M "Effect of *Chusquea quila* as a physical filter for the establishment of woody species in the temperate rain forest" Universidad Austral de Chile, Chile.

Tomás I. Fuenzalida¹ & Frida I. Piper^{2,3} "Leaf re-flushing after complete defoliation enhances the resistance of a winter deciduous tree to the outbreak of a generalist moth species" (1) Pontificia Universidad Católica de Chile, Chile. (2) Centro de Investigación en Ecosistemas de la Patagonia (CIEP), Chile. (3) Instituto de Ecología y Biodiversidad, Chile.

Parra L "Variation of phylogenetic signal and evolutionary rate in functional traits correlations in *Nothofagus* genus" Universidad Austral de Chile, Chile.

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

17:30 - 18:15 **Evening Lecture by Frida Piper** "C dynamics in deciduous and evergreen species: Is it coordinated with nutrient storage?" Centro de Investigación en Ecosistemas de la Patagonia, Chile.

19:00 "*Cata en Kata*" and Dinner by **Marino Cabrera and Claudio Pastenes**

January 20 (Friday)

9:00 - 9:30 **Mini-Lecture** by Nicolás Franck, Zamorano D, Cáceres M, Díaz M, Fridman T & Pastenes C "Effect of source: sink balance on leaf and plant carbon dynamics of three fruit trees with different phloem loading strategies" Universidad de Chile, Chile.

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

Sidonie Loiez & Frida I. Piper "Differences during bud break between deciduous and evergreen *Nothofagus*" Centro de Investigación en Ecosistemas de la Patagonia -Agrocampu Ouest - Rennes.

David Rodríguez "*Hydrangea serratifolia* (Hook. & Arn.) F. Phil., La trepadora más dominante en un bosque maduro: influencia comunitaria y ecosistémica en el bosque templado lluvioso" Universidad de Concepción, Chile.

Ana Fallard, Héctor Jiménez, Giovanni Larama, León A. Bravo "Control post-transcripcional de la expresión génica durante el ciclo de desecación-rehidratación en *Hymenophyllum caudiculatum* (Mart.) var. *productum* (K. Presl.)" Universidad de la Frontera, Chile.

Mabel Delgado, Frida Piper y Alejandra Zúñiga. "Higher waterlogging tolerance in shade tolerant evergreen species than in their light-demanding counterparts". Universidad Austral de Chile, Chile. Centro de Investigación en Ecosistemas de la Patagonia.

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

11:30 - 12:00 **Mini-Lecture** by Alex Fajardo "Competition or facilitation: the ultimate role of cluster roots for Proteaceae species and others" Centro de Investigación en Ecosistemas de la Patagonia, Chile.

12:00-12:45 **Noon Lecture** by María Fernanda Pérez "Comparative phylogeography of central Chile species: influence of functional traits on plant response to quaternary climatic fluctuations" Pontificia Universidad Católica de Chile, Chile.

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

15:00-15:30 **Mini-Lecture** by Patricia Sáez¹, Jeroni Galmés², Constanza Ramirez¹, Leticia Poblete¹, Lohengrin A. Cavieres¹ & León A. Bravo³. "Increasing temperature and its effects on photosynthetic performance of Antarctic vascular plants: field and laboratory conditions" (1) Universidad de Concepción, Chile. (2) Universidad de Islas Baleares, Spain. (3) Universidad de la Frontera, Chile.

15:30 - 16:30 **Short communications 3**

Carolina Hernández-Fuentes, José Ortiz & Lohengrin Cavieres "Is there any effect of the latitudinal provenance in the photosynthetic performance and limitations of *Colobanthus quitensis*?" Universidad de Concepción, Chile. Instituto de Ecología y Biodiversidad, Chile.

Paulina Pradel & León Bravo "Effect of warming on soil bacteria and its relationship with plant performance on *Deschampsia antarctica* and *Colobanthus quitensis*" Universidad de la Frontera, Chile.

Javiera Vargas "Efectos de la fertilización sobre la resistencia a la sequía en dos especies del matorral de Chile central" Universidad de Concepción, Chile.

Alonso Vigil T. & Wilfredo L. Gonzales "Contrasting functional traits of two shrubs (Capparaceae) from the Peruvian dry forest" Universidad Peruana Cayetano Heredia.

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

17:30-18:15 **Evening Lecture** by Juan Pedro Ferrio "Water on the rocks: exploring plant's ability to uptake water from dry soils" Universidad de Concepción, Chile

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

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

January 21 (Saturday)

09:00 - 09:30 **Mini-Lecture by Lohengrin Cavieres** "Invasive plants in the central Chilean Andes: patterns, mechanisms and consequences" Universidad de Concepción, Chile. Instituto de Ecología y Biodiversidad, Chile.

09:30 - 10:30 **Morning Lecture by Alfredo Saldaña** "Functional Ecology of vascular epiphytes in the Southern temperate forest" Universidad de Concepción, Chile.

11:30 - 12:00 **Mini-Lecture by Claudio Pastenes** "Water relations in grapevines: contrasting responses on three varieties" Universidad de Chile, Chile.

12:00-12:45 **Closing Lecture by Jeroni Galmés** "Ecophysiological causes and consequences of RUBISCO variations in plants" Universidad de Islas Baleares, Spain.

13:00 **Farewell Lunch**

16:00 **Departure**