



VII Summer Colloquium on Plant Ecophysiology
Parque Katalapi, Pichiquillaípe, Puerto Montt, Chile
 January 21-23th, de 2012
<http://www.parquekatalapi.cl>



General Program

Time	Saturday	Sunday	Monday
08:00-09:00	Breakfast	Breakfast	Breakfast
09:00-10:30	Registration	Short communications SESSION 3	Short communications SESSION 7
10:30-11:00	Registration	Coffee Break	Coffee Break
11:30-11:45	11:45 Welcome Luis Corcuera	Short communications SESSION 4	Short communications SESSION 8
11:45-12:45	Opening Conference Rafael Coopman "Ontogenetic changes in photosynthetic light use efficiency and its relationship with CO ₂ assimilation in the Chilean evergreen temperate rain forest"	Noon Conference Manuel Pinto Roots-shoots relationships: old and new insights	Closing Conference Hans Lambers "Contrasting roles of roots and carboxylate exudation in nutrient cycling in young and old ecosystems"
13:00-14:30	Lunch	Lunch	Farewell lunch
14:30-16:00	Short communications SESSION 1	Short communications SESSION 5	Farewell lunch
16:00-16:30	Coffee Break	Coffee Break	Participants departure
16:30-18:00	Short communications SESSION 2	Short communications SESSION 6	
18:15-19:15	Evening Conference Tim Colmer "Waterlogging and salinity in wild <i>Hordeum</i> species"	Evening Conference Rafael Oliveira "The ecological role of fog in neotropical cloud forests"	
19:30	Mixer and dinner	Dinner	
>21:30	Night Conference John Bishop Insect herbivores, nutrient limitation, and ecosystem assembly on young volcanic deposits	Round table discussion Leon Bravo Ecophysiology education in Graduate Schools in Chile	



General Program

January 21 (Saturday)

Colloquium opening

11:30 **Corcuera Luis** (*U. de Concepción*): "Opening remarks and welcome".

11:45 **Opening Conference by Rafael Coopman** (*Universidad Austral de Chile*): "Ontogenetic changes in photosynthetic light use efficiency and its relationship with CO₂ assimilation in the Chilean evergreen temperate rain forest"

13:00-14:00 **Lunch**

Session I

14:30 **Bascuñán Luisa** (*CEAZA, La Serena*) "Differential photochemical performance in response to flooding and drought in two swamp plants with contrasting soil moisture distribution: *Myrceugenia exsucca* (DC.) O. Berg and *Luma chequen* (Molina) A. Gray"

15:00 **Franck Nicolás**, Víctor García de Cortázar, Jorge Pérez-Quezada and Claudio Pastenes (*Centro de Estudios de Zonas Áridas, Facultad de Ciencias Agronómicas, Universidad de Chile*). "Seasonal fluctuations in root respiration of *Vitis vinifera* grown in an arid Mediterranean climate"

15:30 **Zúñiga Alejandra** (*Universidad Austral de Chile*) "Proteaceae from poor young soils in Chile"

16:00-16:30 **Coffee break**

Session II

16:30 **Saldaña Alfredo** (*Universidad de Concepción*) "Volcano Puyehue eruption in the temperate evergreen forest: a preliminary survey of ash-fall impacts on the forest community"

17:00 **Pincheira Matías** and Rafael Rubilar (*Universidad de Concepción*) "Modelling light interception and phenology of leaf area display for Eucalyptus genotypes under contrasting water availability environments"

17:30 **Ortiz Claudia** (*Universidad de Santiago de Chile*) "Metal uptake and production of organic acids by plant species under treatment with mining-waste water."

18:00 **Vergara Alexis**, Pinto Manuel., Edwards S. and Murchie Erik (*INIA*). Photosynthetic characterization of quinoa genotypes (*Chenopodium quinoa* Mills) under light and drought stress

19:00 **Evening Conference by Tim Colmer** (*University of Western Australia*): "Waterlogging and salinity tolerance in wild *Hordeum* species"

20:00 **Mixer and dinner**

21:30 **Night Conference by John Bishop** (*Washington State University-Vancouver*) "Insect herbivores, nutrient limitation, and ecosystem assembly on young volcanic deposits"

January 16 (Sunday)

Session III

9:00 **Raab N., F.** Bravo-Martínez, and F. Meza. (*Pontificia Universidad Católica de Chile*) "Water Use Efficiency (WUE) of a mediterranean shrubland dominated by *Acacia caven* (Mol). Which are the costs and adaptations to be like sink CO₂?"

9:30 **Ortiz Mauricio** (*CEAF*) "Threshold depth of the water table for the survival of an old population of *Prosopis Tamarugo* in the Atacama desert"

10:00 **Hallick Lea** (*Estonia*): "Interactions between plants and light"

10:30-11:00 **Coffee break**



Session IV

- 11:00 **Bravo-Martínez F.**, N. Raab and F. Meza Net (*Pontificia Universidad Católica de Chile*). "Net Ecosystem Exchange (NEE) in an arid shrubland of *Acacia caven* (Mol) dominated by drought conditions. Implications to the Climatic Change on Central Chile".
- 11:30 **Michelle Morales**, Guillermo Toro, Gabriel Selles Raúl Ferreyra, Manuel Pinto (*INIA*). Effect of different rootstocks on the physiological response of grapevine (*Vitis vinifera* L.) to flooding
- 12:00 **Noon Conference by Manuel Pinto** (*INIA*): *Roots-shoots relationships: old and new insights*
- 13:00-14:00 **Lunch**

Session V

- 14:00 **Ovalle Ortega** Juan and Eduardo Arellano Ogaz (*Pontificia Universidad Católica de Chile*) "Effect of nutritional regimens on root architecture and seedling quality in *Quillaja saponaria* (Mol.): implications for post-planting survival in semiarid Mediterranean ecosystem of Central Chile"
- 14:30 **Fassio Claudia**, Mónica Castro y Ricardo Cautin (*Pontificia Universidad Católica de Valparaíso-Chile*) "Root anatomy in avocado rootstocks".
- 15:00 Herrera Venecia, **Enrique Ostría**, Violeta Maturana., Cristián Carrasco and Karen Atienzo (*Universidad Arturo Prat*) "Mobility of Arsenic and essential metals on saline wetlands associated to salars springs. Altiplano of Northern Chile".

15:30-16:00 Coffee break

Session VI

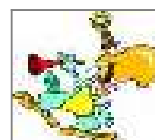
- 16:00 **Martínez Enrique**, Didier Bazile, Andrés Zurita, Marco Molina, Sonia Montecinos, Manuel Pinto, José Delatorre. (*CEAZA*) The opportunities of quinoa and its long latitudinal range in Chile.
- 16:30 **Acuña K.I.**, Aravena K.A., Bravo S., Parra M.J., Corcuera L.J. & L.A. Bravo (*Universidad de Concepción*) "Antioxidant responses in two Hymenophyllaceae subjected to desiccation and rehydration under different light intensities"
- 17:00 **Bravo León**, Luis J. Corcuera, María J. Parra, Karina Acuña, Alfredo Saldaña and Alejandra Flores-Bavestrello (*Universidad de La Frontera*) "New ideas to follow the studies on Hymenophyllaceae desiccation tolerance".
- 17:30 **Aranzazú Guevara** y Carla V. Giordano (*IADIZA CONICET-Mendoza*) "Fine roots dynamics in *Prosopis flexuosa*, a phreatophyte in the Monte Desert (Argentina)"

18:15 Evening Conference Rafael Oliveira (*Universidade Estadual de Campinas*) : "The ecological role of fog in neotropical cloud forests"

19:30 **Dinner**

21:00 **Round table discussion: (León Bravo, Chairman):** Ecophysiology education in Graduate Schools in Chile

22:00 **Dancing party** (*Organized by the participants*)





VII Summer Colloquium on Plant Ecophysiology
Parque Katalapi, Pichiquillaípe, Puerto Montt, Chile
January 21-23th, de 2012
<http://www.parquekatalapi.cl>



January 23 (Monday)

Session VII

- 9:00 **Hernández Carolina** (*Universidad de Concepción*) Photosynthetic responses of *Phacelia secunda* plants exposed to experimental warming and drought in the central Chilean Andes.
- 9:30 **Peñaloza Enrique** (*Universidad de Concepción*) The contribution of phosphoenolpyruvate carboxylase to carbon cycling in roots of *Triticum aestivum* a biotechnological approach.
- 10:00 **Rubén Almada**, Paula Pimentel, María José Arismendi, Patricio Hinrichsen, Manuel Pinto, Boris Sagredo (CEAF) Hemoglobin-like genes and prunus rootstocks tolerance to root hypoxia.

10:30 Coffee break

Session VIII

- 11:00 **Parra María José**, Karina Acuña, Angela Sierra, Luis Corcuera y Leon Bravo (*Universidad de Concepción*) "Photosynthetic light responses may explain vertical distribution of Hymenophyllaceae species in a temperate rainforest of Southern Chile"
- 11.30 **Zurita Andrés** (CEAZA) "Quinoa: a stress tolerance gene source"
- 12:00 **Closing Conference Hans Lambers** (*University of Western Australia*): "Contrasting roles of roots and carboxylate exudation in nutrient cycling in young and old ecosystems"
- 13:00-15:30 **Outdoors Farewell Lunch**