



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



General Program

Time	Friday	Saturday	Sunday
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	Social activity	Round table discussion	



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**

>**Social activity**

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

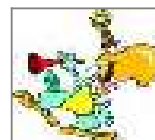
- 16:00 **Martínez Enrique**, Didier Bazile, Andrés Zurita, Marco Molina, Sonia Montecinos, Manuel Pinto, José Delatorre. (*CEAZA*) The opportunities of quinoa and its long latitudinal range in Chile.
- 16:30 **Acuña K.L.**, Aravena K.A., Bravo S., Parra M.J., Corcuera L.J., & L.A. Bravo (*Universidad 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 School in Chile

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





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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**