



Universidad de Concepción and Parque Katalapi



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V Summer Colloquium on Plant Ecophysiology

Parque Katalapi, Pichiquillaie, Chile

January 18-20 2010

General Program

January 18 (Monday)

Session I

18:30 **Corcuera Luis** (U. de Concepción). "Opening remarks and welcome".

18:40 **Frida Piper**: (Centro de Investigaciones en Ecosistemas de la Patagonia, Coyhaique) "Global change-induced tree mortality: A revision of the main explanations"

19:00 **Alex Fajardo** (Centro de Investigaciones en Ecosistemas de la Patagonia, Coyhaique) "Facilitation within cohorts leads to group selection and "supertrees".

19:20 **Opening Lecture by Nicotra Adrienne** (Australian National University, Canberra, Australia). "Phenotypic plasticity in plants and its relevance to ecophysiology in a changing climate".

20:20

Mixer followed by dinner

22:00 **Squeo Francisco** (U. de La Serena) "Round table discussion on needs of ecophysiological research for plant conservation"

January 19 (Tuesday)

Session II

9:00 **Alberdi Miren** (U. de la Frontera, Temuco) "Response of Blueberry (*Vaccinium corymbosum* L.) cultivars to aluminum and manganese under acid conditions".

9:30 **Atala Cristian**, Edward Hermsilla and Tim Brodribb. (U. de Concepción, Los Angeles) "Ecophysiological characterization of *Dendroligotrichum dendroides* (Brid. ex Hedw.) Broth. (Polytrichaceae, Musci)"

9:50 **Acevedo Manuel**, Rafael Rubilar (U. de Concepción). "Effect of water availability on xylem water potential in plantations of genotypes of *E. globulus*, *E. nitens*, and hybrids."

10:10 **Frank Nicolás** (U. de Chile) "Assessing the effects of functional and structural plasticity with a 3D simulation model in *Coffea arabica*"

10:40-11.00 **Coffee break**

Session III

11:00 **Coopman Rafael E.** (U. Austral, Valdivia) "Photosynthetic contribution of different age leaves to *Nothofagus nitida* trees growing under contrasting light availabilities"

11:30 Rioseco T, Garay D, Novoa F, Novoa D, Contreras M & **Cabrera HM** (U. Católica de Valparaíso y Centro de Ecología Aplicada, Santiago) "Studies in plant from the Altiplano in northern Chile: Ecophysiology of photosynthesis and NDVI in monitoring and detecting environmental stress"

12:00 **Lecture by Lutts Stanley** (U. Catholique de Louvain, Belgium) "Iron toxicity in plants"

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

Session IV

14:30 **Hernández Carolina** (U. de Concepción). "Leaf hydraulic conductance of *Phacelia secunda* plants from two altitudes of the Chilean Central Andes"

- 15:00 **Cavieres Lohengrin** (U. de Concepción). "Assessing ecological and ecophysiological responses to warming in alpine plant species"
- 15:30 **Meriño Cristian** (U. de La Frontera, Temuco) : "Effects of Al/Ca ratio on photosynthetic parameters in Blueberry (*Vaccinium corymbosum*)"
- 15:30 **Rubilar Rafael** (U. de Concepción) "Contrasting resource availability and genetic differences on leaf area and physiological responses of *Eucalyptus* genotypes"

15:50 **Coffee break**

Session V

- 16:20 **Gallardo Jorge** (U. de Concepción) "Dehydrins accumulation under drought and low temperature in leaves of *Nothofagus dombeyi*".
- 16:40 **Donoso Gabriel** (INIA, Chillán) "Rice as a Model to Study Abiotic Stress in Monocots"
- 17:00 **Quezada María Paz** (U. de Concepción). "The contribution of Mehler reaction and Photorespiration to the whole plant photochemical efficiency in *Nothofagus nitida* and *Nothofagus dombeyi*: The light environment effect"
- 17:20 **Sáez Patricia**, León A Bravo, Manuel Sánchez-Olate and Darcy Ríos (U. de Concepción). "Comparative analysis of the anatomical and functional leaf characteristics of in vitro cultured microshoots and nursery plants of *Castanea sativa*"
- 17:40 **Bravo León** (U. de Concepción). "Differential activity of photosystems I and II in two Hymenophyllaceae species during dehydration may explain their contrasting desiccation tolerance and distribution in a temperate rainforest of southern Chile"

18:10 **Coffee break**

- 18:30 **Lecture by Saldaña Alfredo** (U. de Concepción). "Leaf display and light interception efficiency of temperate rainforest conifer and angiosperm seedlings".

20:00 Dinner

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



January 20 (Wednesday)

Session VI

- 9:30 **Bascañán Luisa** (CEAZA, La Serena). "Photosynthetic characterization of three native plants from Northern Chile".
- 9:50 **Flores Alejandra** (U. de Concepción) "Study of the photosynthetic apparatus behavior in two contrasting species of the Hymenophyllaceae Family in relation to their desiccation tolerance".
- 10:10 **Zúñiga Alejandra** (U. Austral de Chile, Valdivia) "Role and induction of proteoid roots in Chilean Proteaceae: the case of *Embothrium coccineum*"
- 10:30 **Cuba Marely** Cynthia Retamal, Luisa Bascañán and Leon Bravo (U. de Concepción Los Angeles) "Sucrose and total soluble sugars accumulation in *Colobanthus quitensis* during cold acclimation in two photoperiods under laboratory conditions"

10:50 **Coffee break**

- 11:15-12:15 **Closing Lecture by Flexas Jaume** (U. de les Illes Balears, España). "Much more than two: mesophyll conductance as a third player in the photosynthesis game".

12:30-15:30 **Farewell barbecue offered by Miren Alberdi and Rodolfo Deppe**

