



VI Summer Colloquium on Plant Ecophysiology

Parque Katalapi, Pichiquillaiepe, Puerto Montt, Chile

January 15-17th, de 2011

<http://www.parquekatalapi.cl>



GENERAL INSTRUCTIONS

The VI Summer Colloquium on Plant Ecophysiology will be held on January 15-17th, 2011 at Parque Katalapi. This park is located in Pichiquillaiepe, 18 Km from Puerto Montt by Carretera Austral (41.35° South – 72.45° West). This is a coastal area with a temperate rainy climate and cool nights. For this reason, it is recommended to bring warm clothing, rain gear, and adequate field shoes.

Registration Costs^a

	Professionals	Students
Registration fee (Chilean pesos)	60000	30000

^aRegistration fees include food and lodging from lunch on January 15th through lunch on January 17th. Students must bring sleeping bags.

1. **Language:** Presentations should be preferably in English. All slides should also be self sufficient and in English. If you desire to make your presentation in Spanish, please consult the organizer.
2. **Registration form:** The registration form can be downloaded from <http://www.parquekatalapi.cl>
3. **Registration costs:** This registration will cover food and lodging from lunch on Saturday 15 until lunch on Monday 17. Professionals will pay \$60.000 and students \$30.000. Without lodging in the park, professionals will pay \$40.000 and students \$20.000. Extra meals will cost \$4000 c/u and breakfast \$1500.
4. **Lodging for students:** Students will be assigned to dormitories within the park. All students must bring sleeping bags. If some students want to pay a lower registration fee, camping facilities are available (consult prices).
5. **Lodging for other participants:** Unless there exists a specific request from the participant, the type of lodging will be assigned by the organizer. Most rooms are quadruple.
6. **Payment of the registration fee:** Payment should be made by December 1 by direct payment or bank transfer to: Luis Corcuera, Rut 5170015-5, account 160-13571-00, Banco de Chile. Please send a copy of your deposit to licorcuera@udec.cl. International participants may pay during the first day of the Colloquium. Luis Corcuera (Office phone 41-2203586/mobile 92490228).
7. If you wish to know more about Parque Katalapi, please visit our web page: <http://www.parquekatalapi.cl>
8. **Program:** The program will consist of Conferences and short communications. Those interested in participating in the Colloquium must send an email with the registration form to luis.corcuera@parquekatalapi.cl, indicating the title of the presentation. The time allocated for Conferences is 45 min (plus 15 min for discussion); short communications must be presented in 15 min (plus 5 min for discussion). All slides must be in English. It is recommended that presentations are made in English. Those that decide to do the oral presentation in Spanish must be specially careful at preparing self-sufficient slides in English.



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General Program

Time	Saturday	Sunday	Monday
08:00-09:00	Breakfast	Breakfast	Breakfast
09:00-10:00	Registration	Morning Conference José Ignacio García Plazaola Photoprotective strategies in Mediterranean ecosystems: from the molecule to the landscape	Morning Conference Hans Lambers Phosphorus nutrition and growth strategies of plants in a global biodiversity hotspot.
10:00-11:30	Registration	Coffee Break	Coffee Break
11:30-11:45	11:45 Welcome Luis Corcuera	Short communications SESSION 3	Short communications SESSION 6
11:45-12:45	Opening Conference Jaume Flexas Life after death: what limits plants recovery after a drought period?	Noon Conference Jeroni Galmés The role of mesophyll conductance and rubisco in the adaptation to abiotic stress	Closing Conference Ülo Niinemets Forest tree responses to multiple stresses
13:00-14:30	Lunch	Lunch	Farewell lunch
14:30-16:00	Short communications SESSION 1	Short communications SESSION 4	Farewell lunch
16:00-16:30	Coffee Break	Coffee Break	Participants departure
16:30-18:00	Short communications SESSION 2	Short communications SESSION 5	
18:15-19:15	Evening Conference Ingo Ensminger Thomas Mueller, Janna Groeneveld, Henning Wildhagen, Karl Schmid "Adaptation of forest trees to climatic change – Diversity of drought responses in Douglas-fir provenances"	Evening Conference Miquel Ribas Respiring from the organelle to the ecosystem	
19:30	Mixer and dinner	Dinner	
>21:30	Social activity	Social activity	



General Program

January 15 (Saturday)

Session I

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

11:45 **Opening Conference by Jaime Flexas** (*U. Islas Baleares*): *Life after death: what limits plants recovery after a drought period?*

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

Session II

14:30 José Casaretto (*U. Talca*): "Improving stress tolerance: what can abscisic acid signaling do?"

15:00 Peñaloza Enrique: The role of phosphoenolpyruvate carboxylase in cluster roots of White lupin

15:30 Rioseco T, Contreras M, Novoa F & **Cabrera HM.** (*CEA; UCV*): Field experiments of CO₂ assimilation and C capture: from "modern" IRGAs to the "future" of Remote Sensing.

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

Session III

16:30 Zúñiga-Feest A, Bustos A. (*UACH*) "Variación fenotípica de *Embothrium coccineum* a nivel del aparato fotosintético y su relación con la formación de RP"

16:50 Cristián Meriño (*UFRO*): Calcium and sulfur content in highbush blueberry and their effects on antioxidants capacity

17:10 Bravo León (*UFRO*): Resurrection in filmy ferns from the Chilean temperate rain forest: a fact or an artifact?

18:15 Evening Conference by Ingo Ensminger (*University of Toronto*)

19:30 Mixer and dinner

>**Social activity**

January 16 (Sunday)

Session IV

9:00-10:00 **Morning Conference José Ignacio García-Plazaola** (*U. País Vasco*) "*Photoprotective strategies in Mediterranean ecosystems: from the molecule to the landscape*"

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

10:30 Pinto, Manuel, Olivares, Daniela; Pinto Francisco, Berti Maritza, Nilo, Ricardo; Hinrichsen, Patricio (*INIA, Santiago*): Are the early light-inducible protein (ELIP) protecting against photoinhibition?

10:50 Enrique Ostría (*U de Concepción*): "Exploring the phenomenon of heteroblasty in *Gevuina avellana*".

11:10 Díaz M, Ochoa V, Zúñiga A. (*UACH*) "Efecto del P en la formación de RP en la Proteaceae endémica chilena, *Orytes myrtoidea*"

11:30 Cardemil L, Salinas C, Huerta C, Ramírez I, & Freire M. (*U. de Chile*): *Aloe barbadensis* Miller (*Aloe vera*) changes the structures of the gel molecules and leaves under water stress.

12:00 **Noon Conference Jeroni Galmés** (*U. Islas Baleares*) *The role of mesophyll conductance and rubisco in the adaptation to abiotic stress*

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

Session V



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- 14:00** Rafael Coopman (*UACH*): Photosynthesis and respiration in the poikilohydric filmy fern *Hymenoglossum cruentum*
- 14:20** Gonzalo Caballé (*INTA, Argentina*): Modeling leaf maximum net photosynthetic rate of *Festuca pallescens*, the dominant perennial grass of Patagonian pine-based silvopastoral systems.
- 14:40** Nicolás Franck: "Evergreen vs deciduous fruit trees: differences in carbon fluxes and stocks assessed through a model"
- 15:00** Cortés Rowena (*PUC*). Managment of Salt Tolerance in Citrus

15:30 Coffee break

Session VI

- 16:00 Beatriz Fernández (*U. País Vasco*): The "night life" of violaxanthin cycle: all we know until now
- 16:40 Carolina Sanhueza (*U. de Concepción*): Respiratory capacity of New Zealand evergreen *Nothofagus* species as influenced by differential drought tolerance
- 17:00 Gabriel Donoso (*INIA, Chillán*): Efecto de la auxina en la inducción de raíces proteoideas en *Embothrium coccineum* J.R. et G. Foster en condiciones de deficiencia de fósforo
- 17:20 Rayén Millaleo (*UFRO*): "Photosystem I (PSI) of *Arabidopsis thaliana* is affected by manganese excess".

18:00 Coffee break

- 18:30 **Evening Conference Miquel Ribas** (*U. Islas Baleares*) "Respiring from the organelle to the ecosystem"

20:00 Dinner

- 21:00 **Round table discussion: The future of Ecophysiology in Chile** (**León Bravo, Chairman**)

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



January 17 (Monday)

Session VII

- 9:00 **Morning Conference Hans Lambers** (*University of Western Australia*): "Phosphorus nutrition and growth strategies of plants in a global biodiversity hotspot".

10:00 Coffee break

- 10:30 **Alejandra Flores & Bravo LA** (*U. de Concepción-UFRO*): "The effect of light environment on the desiccation tolerance of Hymenophyllaceae"
- 10:50 **Claudia Ortiz** (*USACH*): Antioxidant response and gene expression in *Polypogon australis* plants obtained from seeds collected on a copper mine facility in northern Chile
- 11:10 **Rubilar Rafael** (*U de Concepción*): Phenology of Eucalyptus genotypes growth under contrasting water availability conditions

- 11:30 **Closing Conference Ülo Niinemets** (*Estonian University of Life Sciences*): "Forest tree responses to multiple stresses"

- 12:30-15:30 **Outdoors Farewell Lunch**

