



**Universidad de Concepción**

**Program of the course and workshop of the Research Nucleus  
on Environmental and Natural Resource Economics of the  
Milenio Scientific Initiative  
20th - 22th of March, 2014,  
Termas de Chillán, Chile.**



**P · R · O · G · R · A · M · A  
MAGISTER EN ECONOMIA  
DE RECURSOS NATURALES  
Y DEL MEDIO AMBIENTE**



**Thursday, 20th of March, 2014**

*8:30 – 10:30 Meeting room of the Research Nucleus in the Universidad de Concepción*

Meeting of the members of the Research Nucleus on Environmental and Natural Resource Economics a Iniciativa Científica Milenio con investigadores seniors del Núcleo y profesores invitados internacionales.

*14:30 – 18:30 Gran Hotel Termas de Chillán*

**Course for decision makers.**

*“Evaluación de impacto de programas para la protección ambiental y el manejo de los recursos marinos: aspectos conceptuales y aplicaciones”.*

(invited participants).

## Workshop

**Friday, 21th of March, 2014**

*Opening (11:15 - 11:30, Salón A)*

**Keynote lecture 1:** (11:30 - 12:30, Salón A)  
(Chair Miguel Quiroga)

Gunnar Köhlin "Organizing research for policy impact: the Environment for Development (EfD) experience"

*Lunch (12:30 - 13.45)*

**Session 1** "Advances on research about economy of the fishery regulation"  
(14:00 - 15:30, Salón A) (**parallel to Session 2**)  
(Chair Gunnar Köhlin)

Hakan Eggert "Catch shares in a co-managed Swedish shrimp fishery"  
(Discussant: Ragnar Arnason)

Ragnar Arnason "On Optimal Dynamic Enforcement of Fisheries Rules"  
(Discussant: John Stranlund)

Jorge Dresdner "A multi-objective model for the fishing and aquaculture sectors with interregional links"  
(Discussant: Häkan Eggert)

**Session 2** "Advances on research about economic valuation of natural resources"  
(14:00 - 15:30, Salón 1) (**parallel to Session 1**)  
(Chair Arcadio Cerda)

Ricardo Flores "Valoración Económica del impacto de la contaminación atmosférica: Un enfoque de regresión por cuantiles para estimar la Disposición a Pagar y Disposición a Trabajar"  
(Discussant: Moisés Carrasco)

Moisés Carrasco "Duality and Hyperbolic Discounting in Contingent Valuation of Marine Reserves in Chile"  
(Discussant: Arcadio Cerda)

Arcadio Cerda "The effects of visual information on willingness to pay for a recreational site improvement in Chile"  
(Discussant: Ricardo Flores)

*Coffe Break (15:30 - 16:00)*

**Keynote lecture 2:** (16:00 - 17:00, Salón A)  
(Chair **Hugo Salgado**)

Ragnar Arnason " *Individual transferable quotas: What they can and what they cannot do*"

**Session 3 (EFD)** " *Analysis of programs to induce technology adoption.* "  
(17.00 - 18.30, Salón A) (**parallel to Session 4**)  
(Chair **Yonas Allem**)

Gunnar Köhlin " *Impacts on equity and efficiency of devolution of forest management*"  
(Discussant: *Jorge Dresdner*)

Walter Gómez " *Using stated preference methods to design cost-effective subsidy programs to induce technology adoption: An application to a stove program in southern Chile*"  
(Discussant: *Paulina Schulz*)

Yonas Allem " *The Dynamics of Electric Cookstove Adoption: Panel Data Evidence from Ethiopia* "  
(Discussant: *Carlos Chávez*)

**Session 4** " *Advances on research about the economic forestry, agriculture and aquaculture* " (17:00 - 18:30, Salón 1) (**parallel to Session 3**)  
(Chair **Hugo Salgado**)

Rodrigo Arriagada " *Impact evaluation of protected area networks on avoiding deforestation*"  
(Discussant: *Felipe Vásquez*)

Miguel Quiroga " *Community watershed management in Guatemala*"  
(Discussant: *Hugo Salgado*)

Hugo Salgado " *Stakeholders perceptions of the environmental and socioeconomic effects of salmon aquaculture in Chile* "  
(Discussant: *Rodrigo Arriagada*)

**Saturday, 22th of March 2014**

**Session 5** "Advances on research about fishery regulation"

(8:30 - 10:00, Salón A) (**parallel to Session 6**)

(Chair: **Felipe Vásquez** )

Monserrat Miller " *¿Quién debe pagar los costos de administración de un sistema de Cuotas Individuales Transferibles?: Una aplicación basada en simulaciones numéricas para la pesquería de la sardina y la anchoveta de la zona Centro-Sur de Chile* "

(Discussant: **Oscar Santis**)

Miguel Jara " *¿Existe alguna Asignación de Cuota más Equitativa para los Pescadores Artesanales de la Región del Biobío?.*"

(Discussant: **Carlos Chávez**)

Oscar Santis " *Extracción de Recursos Naturales en Contextos de Abundancia y Escasez: Un Análisis Experimental sobre Infracciones a Cuotas en Áreas de Manejo y Explotación de Recursos Bentónicos en el Centro-Sur de Chile*"

(Discussant: **Felipe Vásquez** )

**Session 6** "Research projects"

(8:30 - 10:00, Salón 1) (**parallel to Session 5**)

(Chair **Marcelo Caffera**)

Yanina Figueroa " *Factores determinantes de la oferta de colectores de semilla de chorito (*mytilus chilensis*) producidos en áreas de manejo en la Región de Los Lagos, Chile.* "

(Discussant: **Roberto Pastén** )

Carol Luengo " *El impacto de la incertidumbre en el monto de las multas sobre el nivel de violaciones*"

(Discussant: **Walter Gómez**)

Marcela Maibé " *Determinantes del tiempo de duración de los efectos del virus ISA en las exportaciones de Salmón Atlántico en Chile* "

(Discussant: **Marcelo Caffera**)

*Coffe Break (10:00 - 10:30)*

**Session 7** “Advances on research about economic instruments for the management of natural resources” (10:30 - 11:30, Salón A) (**parallel to Session 8**)  
(Chair **Francisco Donoso**)

Isabel Rojas " *Instrumentos Económicos: gestión de Calidad*"  
(Discussant: Miguel Jara)

Francisco Donoso " *NSCA Agua - AGIES Villarrica*"  
(Discussant: Monserrat Miller)

**Session 8** “Research projects”  
(10:30 - 11:30, Salón 1) (**parallel to Session 7**)  
(Chair **Sandra Briceño**)

Vanessa Cadena " *Análisis de los factores que determinan la efectividad de la administración de los recursos pesqueros* "  
(Discussant: Elisa Durán)

Jessica Casanova " *TAC distribution among artisanal and industrial fleets in Anchovy and Sardine fishery: Trade-offs between profit, employment, conservation and equity*"  
(Discussant: Sandra Briceño)

**Keynote lecture 3** : (11:30 - 12.30, Salón A)  
(Chair **Carlos Chávez**)

Håkan Eggert " *Catch shares; Challenges and Possibilities*"

Lunch (12:30 - 13:45)

**Session 9** “Advances on research about Environmental Economics”  
(14:00 - 15:30, Salón A) (**parallel to Session 10**)  
(Chair **John Stranlund**)

Roberto Pastén " *How much marginal compliance to buy and sell: insights from the Chilean experience ?*"  
(Discussant: Isabel Rojas)

Marcelo Caffera " *Under-reporting of industrial plant's BOD discharges in a weak-enforcement environment*"  
(Discussant: Francisco Donoso)

John Stranlund " *Price controls and banking in emissions trading: an experimental evaluation* "  
(Discussant: Yonas Allem)

**Session 10** "Advances on research about Energy demand "

(14:00 - 15:30, Salón 1) (parallel to Session 9)

(Chair Miguel Quiroga)

Elisa Durán "Análisis y Descomposición del Consumo de Energía de la Industria Chilena"

(Discussant: Claudio Parés)

Alejandra Schueftan " Reduction of firewood consumption by households in south-central Chile associated with energy efficiency programs"

(Discussant: Helena Cárdenas)

Helena Cárdenas "A Micro-Data Analysis of Fuels' Factor Demand, The Case of Chilean Manufacturing Sector"

(Discussant: Miguel Quiroga)

Coffe Break (15:30 - 16:00)

**Session 11** "Avances on research about action programs and environmental strategies"

(16:00 - 17:30, Salón A)

(Chair Claudio Parés)

Paulina Schulz " PDA Temuco y Manual PDA genérico"

(Discussant: Alejandra Shueftan )

Sandra Briceño " Estrategia de Crecimiento Verde"

(Discussant: Lorenzo Cerda)

Lorenzo Cerda " Moving to Greener Societies: Moral Motivation and Green Behaviour "

(Discussant: Claudio Parés)

Each paper in the sessions will receive a total of 30 minutes. The speaker will have first 20 minutes for the exposition. Then, the discussant of the paper will receive five minutes for comments. Finally there will be given another five minutes for discussion.

In the two session of "Research projects", the speakers will receive 15 minutes for the presentarion. The discussant shall have 10 minutes for comments and the final discussion should take the last 5 minutes.

It is suggested, to verbally give the comments to the speaker after the presentation. However the discussants can also provide written comments to the speaker.

The speaker can use spanish for presenting their papers, but the overhead transparencies should be in english. The three Keynote lectures and the sessions 1, 3 and 9 are in english, but simultaneous translation to spanish will be provided.



## Keynote speakers



**Ph. D. Gunnar Köhlin.** is an associate professor at the Environmental Economics Unit, Department of Economics, University of Gothenburg. As co-founder of the EEU he has now spent 20 years working with applications of environmental economics in developing countries. He is currently director of the Environment for Development initiative.



**Ph. D. Ragnar Arnason** graduated in economics and politics from the University of Iceland and in economics and econometrics from the London School of Economics before completing his Ph.D. in economics from the University of British Columbia, specialising in the mathematical modelling of fisheries. He is Professor of Fisheries Economics at the University of Iceland and the author of many academic papers on fisheries management. He has also been an adviser on fisheries management to governments around the world and to international organisations.



**Ph. D. Håkan Eggert** is chairman of the undergraduate environmental social science program and of the masters program in environmental management and economics at the University of Gothenburg. He has been resident advisor at EfD Tanzania, University of Dar es Salaam (UDSM).