

RICARDO J. RAINERI BERNAIN

PROFESSIONAL SUMMARY

Economist and energy specialist with solid managerial and academic experience, and a strong background and practice in markets, institutional and financial issues. Wide-ranging advisory experience involving the energy and electric industries, as well as other key sectors such as telecommunications, transport and ports. Addressing issues such as industrial organization, business strategy, competition, antitrust and regulation, market structure and incentives, project evaluation, corporate governance, and regional energy integration. Held several academic positions and carried out extensive research work dealing with challenging energy and power generation issues in the areas of business, governance and public policy.

EDUCATION

- PhD, Economics - Minors in Monetary Economics, Industrial Organization and Regulation, University of Minnesota, 1993
Thesis advisors: Edward C. Prescott (2004 Nobel Prize in Economics) and Richard Rogerson
- M.A., Economics - University of Minnesota, 1991
- MA, Economics - Pontificia Universidad Católica de Chile, 1987
- Business Engineering, Economics - Pontificia Universidad Católica de Chile, 1987
- BA, Economics - Pontificia Universidad Católica de Chile, 1985

PROFESSIONAL EXPERIENCE

- Alternate Executive Director for Argentina, Bolivia, Chile, Paraguay, Peru, and Uruguay
The World Bank Group 2012 - 2014

As a member of the Bank's Board of Executive Directors, I was responsible for overseeing the conduct of the general operations of the Bank, which involves considering and deciding about proposals made by the President on loans and guarantees, credits and grants, investments and guarantees, as well as deciding on policies and strategy issues. I also was responsible for presenting to the Board of Governors, at the Annual Meetings, an audit of accounts, an administrative budget, and an annual report on the Bank's operations and policies as well as other Bank-related matters.

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In my term at the WBG I was recognized for a strong commitment with the institution and great efforts to advance the development agenda; advocate for the MICs; champion for increased Bank lending, IFC investments and MIGA guarantees for the Latin America and the Caribbean Region; proponent of the need to invest in people and encouraged more investments in education and institutional capacity building; stressed the crucial links between energy, infrastructure and development, supporting projects that provided incentives to attract investments to these sectors in client countries; my practical approach and my skills in many issues, particularly my ability to build consensus and to engage and motivate everyone around.

- Vice President for Academic Affairs 2013 - 2014
International Association for Energy Economics (www.iaee.org)

Promote the enrollment of new members and review IAEE programs and activities to ensure that they do serve the interests of the academic (faculty and student) members of IAEE. Participate in IAEE Council Meetings and IAEE Conferences.

- Board Member, Schwager Energy S.A. 2011- 2012
(<http://www.schwager.cl/web/>)

As a Board member, I was responsible for defining the company's strategic directions and overseeing its operations. Establish mission and purpose; create value for the shareholders; select the CEO; support and evaluate the CEO; set policies and ensure effective planning; monitor and strengthen programs and services; ensure adequate financial resources; protect assets and provide proper financial oversight; build a competent board; ensure legal and ethical integrity; and enhance the organization's public standing.

Contribute in a restructuring process where a 100 years old company, whose historic core business was coal mining, was restructured into a renewable energy and service company, reverting also the path of financial losses suffered in previous years. Consolidate the company into three new business areas. The first, focused on power generation from non-conventional sources, such as biogas through treating dairy waste, and hydro power generation with small run-of river plants. The second, exploiting the mining DNA of the Company, offering maintenance and integration of electrical systems services to the major mining companies of Chile. And finally, logistic and storage.

- Chairperson Directors' Committee, Schwager Energy S.A. 2011- 2012

Schwager Energy requires, within the Board of Directors, the existence of a Directors' Committee. As Chairperson of the Directors' Committee, I lead the committee which oversaw the company's financial statements before Board approval, set forth principles

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and ethical standards for Board members and employees regarding conflict of interests and ethical issues, and ensured sound governance. I dealt with internal and external auditors, as well as the finance, human resources, and operations departments.

- Board Member, SEP 2011- 2012

Board member of the Sistema de Empresas Públicas (SEP, www.sepchile.cl), which is a holding of 22 companies where the State is the owner or a shareholder. SEP represent the interests of the State of Chile in companies in which it is directly or indirectly a partner, shareholder or owner. SEP Board appoints the members of the Boards or Councils and evaluate the strategic management of these companies, to maximize their economic value. SEP Board also engages in Strategic Planning, and Budget Process programming agreements. The SEP seeks the excellence in the companies under its influence, allowing the state of Chile to maximize the performance of their service to the needs and welfare of all the inhabitants of the country.

- Minister of Energy, Government of Chile 2010 – 2011

As Minister of Energy take the dialogue on the energy agenda with parliament (Senators and Representatives), regional authorities, community and civil society, among others. It was my responsibility to integrate the following ministerial committees or councils:

- Council of Ministers of the National Commission on the Environment
- Committee of Ministers of Climate Change
- Economic Development Committee
- Streamlining Investment Committee

Represented the country in international fora like APEC, OECD, UNASUR, UN, WB, IADB, Council of the Americas, Institute of the Americas, UN Climate Change Conference, Energy and Climate Ministerial of the Americas, Nuclear Security Summit, and was responsible for starting the process for Chile's affiliation to the International Energy Agency (IEA). Reopened the important dialogue on energy integration with neighboring countries, Argentina, Peru and Bolivia, which was interrupted in previous years. I also leaded agreements on energy cooperation with the State of California, New Zealand, and France, among other countries.

As Minister of Energy meets the challenge of implementing the recently created Energy Ministry (February 1, 2010), which entails a breakthrough in the country's institutional framework, recognizing the energy sector as a strategic sector for economic and social development. From this recently created Energy Ministry depends the National Energy Commission (CNE), the Electricity and Fuels Superintendence (SEC), the Chilean Nuclear Energy Commission (CCHEN), the Chilean Energy Efficiency Agency (AChEE, created in my term in November 2010) and a Center Advocated to Renewable Energy Sources (CER).

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I promoted important law projects to improve governance in the energy sector, in energy security, and renewable and clean energy sources. Create a delivery unit to manage the various legislative initiatives, projects, products and services of the ministry and its subordinate services.

In the aftermath of the 2010 earthquake and tsunami, which killed 525 people and caused significant infrastructure damage, estimated in USD 30 billion, I led the efforts to restore and ensure the supply of fuels to the affected areas. As Minister of Energy confronted the challenge of rebuilding in record time the energy networks (gas and electricity) and to put back services in the regions affected by the disaster, as well as to ensure the supply of fuels (petrol, diesel, and liquefied gas) that were affected by the destruction in the two major refineries in the country (BioBio and Aconcagua). Create an emergency communications system that allows the Minister and other authorities to be informed of failures, crisis or disaster occurring on or having an impact on the energy sector. Create the Energy Security Council, which for the first time in the history of the country sat at one table all the stakeholders in the energy sector.

As part of the presidential campaign of Sebastián Piñera, running for election for the 2010-2014 period, led the Committee in charge of the design of the energy program (within the Tantauco's Group, which was a team of 1,200 professionals in 36 committees that were in charge of designing the government program).

- Board Chairperson, ENAP 2010- 2011

ENAP (Empresa Nacional del Petróleo, www.enap.cl) is the State Oil Company of Chile. ENAP's main lines of business are exploration, production, refining and marketing of hydrocarbons and their by-products. As Chairperson, I was responsible for coordinating the Board's work program, overseeing the implementation of the corporate strategy and the company's operations, and managing the Board's interactions with ENAP's shareholders, stakeholders and senior management. The Board has four Special Committees of Directors: Audit Committee; Projects Committee, Business and Investment; Committee Procurement Services; Policy Committee and Risk Coverage of Oil Price. ENAP supplies about 80% of Chile's fuel needs; and exports refined products to Peru, Ecuador and Central America. ENAP has oil and gas exploration activities in Chile, Argentina, Ecuador, and Egypt.

In my term, we oversight the restructuring plan developed with the support of BCG. Some of the key achievements in my term are:

- Incorporation of private equity to five new exploration / production concessions of oil and gas in the area of Magallanes, southern Chile.
- Plan staff rationalization, reducing costs achieving the retirement of 530 workers, or about 15% of its total 3,380 workforce.

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- Lead the development of a virtual pipeline (with special trucks) to transport LNG to the eighth region of the country. Region that at the time was depended on natural gas imported from Argentina, a country that was facing serious difficulties to meet gas exports commitments to Chile.
- Refinance the company debt (\$ 4.5 billion), which was mostly with short-term maturities.
- Carry forward the success private placement of bonds in the international debt market, amounting to \$ 500 million within 10 years.
- Achieve in record time the reconstruction of the two major refineries of the company, refineries that were seriously damaged after the earthquake that hit the country in February 2010; and secure the supply of oil and refined products demanded by the country.
- In a company that had shown years with significant losses, and despite the serious damages on the two major refineries, with the commitment of workers and the good management, year 2010 ends with positive results.
- Compromise the resources needed by the company to engage in the geothermal business, in association with private companies.

- Professor (current position)- 1993 -
Industrial and Systems Engineering Department
School of Engineering, Pontificia Universidad Católica de Chile

Longstanding career, starting as instructor and being today Full Professor at Pontificia Universidad Católica de Chile, teaching on issues of economics of regulation, industrial organization, and business strategy. Thesis Advisor for undergraduate engineers, Masters, and PhD students in the interface of economics, management and engineering.

Extensive experience as researcher and advisor on market, institutional and regulatory design, corporate governance, antitrust and regulation, competition, pricing and price regulation, finance and project evaluation. Has advice governments in the South American region and private and state companies, counting Endesa S.A., Colbún S.A., Electroandina S.A., Transelec S.A., Chilectra S.A., Enersis S.A., Gasco S.A., Telefónica S.A., VTR Globalcom S.A., Nextel S.A., Puerto de San Antonio S.A. Credit Suisse First Boston of NY and Chase Manhattan Bank of NY.

I have published in a variety of academic journals as The Energy Journal, Energy Policy, Energy Economics, IEEE Transactions on Power Systems, European Transaction on Electrical Power, International Journal of Global Energy Issues, IEEE Proceedings in Generation, Transmission and Distribution, Utilities Policy, Revista Chilena de Derecho, and participates regularly as a referee for international journals and specialized conferences.

- Chief, Department of Industrial and Systems Engineering 1998 - 2002

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School of Engineering
Pontificia Universidad Católica de Chile

Define, with the advice of the Department's Council, the strategic planning and goals with short, medium and long term targets, in areas of teaching, research and professional services. Engage with the different stakeholders.

Some achievements:

- Promote a new Professional Master Degree in Industrial Engineering (www.miiuc.cl)
- Promote a continuous education program (www.claseejecutiva.cl)
- Increase the Number of Faculty members by 30%
- Increase the physical space in 360%

- Director for Academic Affairs 1994 - 1995
Industrial and Systems Engineering Department
School of Engineering
Pontificia Universidad Católica de Chile

TEACHING EXPERIENCE

- Since 1993 lecturer and researcher in the Industrial and Systems Engineering Department, School of Engineering, Pontificia Universidad Católica de Chile (PUC). Topics include micro and macroeconomics, business economics, industrial organization, industrial economics and regulation, dynamic macroeconomic theory, and engineering ethics.

The courses I have taught at PUC

- ICS-2512 Microeconomics
 - ICS-2523 Microeconomics
 - IND-3710 Business Economics
 - IND-3760 Industrial Organization
 - ICS-3762 Advanced Topics in Industrial Economics and Regulation
 - ICS-3952 Dynamic Macroeconomic Theory
 - ICS-3012 Industrial and Systems Engineering Seminar
 - FIL-188 Engineering Ethics
- IAE Business Scholl, Universidad Austral, Argentina. Certificate on Renewable Energy (2012)
 - MIT, Sloan School of Management. “The Executive Program for the Americas”, Program organized by MIT, Sloan School of Management, with the collaboration of Pontificia

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Universidad Católica de Chile, Pontificia Universidad Católica de Argentina, Instituto Tecnológico y de Estudios Superiores de Monterrey and Universidad de Sao Paulo (1999)

- University of Minnesota, Economics Department. Teaching Associate and Teaching Assistant. Courses: Macroeconomic Principles and Public Finances (1990 – 1993)
- Universidad Gabriela Mistral, Economics Department. Teaching Associate. Courses: Welfare Economics and Resource Allocation, and Microeconomic Principles (1987 – 1988)
- Universidad de Santiago, Economics Department. Teaching Associate. .Course: Intermediate Microeconomics (1987)
- Pontificia Universidad Católica de Chile, Economics Department, Teaching Assistant. Course Intermediate Microeconomic (1983)

SCHOLARSHIPS AND AWARDS

- Second International Finance Congress, Santiago – Chile – Award for the best paper in the field of Institutional Investors (2002)
- President of the Republic Scholarship for studies in the United States(1988-1990)
- Pontificia Universidad Católica de Chile Scholarship for graduate studies (1985-1986)

PROFESSIONAL AFFILIATIONS

- International Association for Energy Economics (IAEE).
- United States Association for Energy Economics (USAEE).
- National Capital Area Chapter of the United States Association for Energy Economics (NCAC-USAEE)
- Founding member of the Latin American Association for Energy Economics
- Founding member of the Chilean Association of Economists

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PUBLICATIONS

- “*Latin America Energy Challenges: Main Drivers and Features*”, in *Nuova Energia*, July 2014, Italy.
- Book Chapter, “*Tendência e Desafios do Desenvolvimento Energético*”, forthcoming UFRJ –CPFL, Brazil.
- “*Global Energy Demand Growth*”, in *Dialogue, Newsletter of the United States Association for Energy Economics, Volume 22, Number 1 - 2014*. www.usaee.org.
- Book Chapter in “*Evolution of Global Electricity Markets: New paradigms, new challenges, new approaches*” in Elsevier, 2013, Edited by Fereidoon P. Sioshansi, Menlo Energy Economics, Chapter 14: “*Latin America Energy Integration: An Outstanding Dilemma*”, with José Goñi, Universidad de Concepción, Isaac Dyner, Universidad Nacional de Colombia Bogota, Nivalde Castro, GESEL - Instituto de Economía – UFRJ, Yris Olaya and Carlos Franco, Complexity Center, Universidad Nacional de Colombia.
- Book Reviews published in the *Journal Economics of Energy & Environmental Policy, March 2013*.
 - *Renewable Energy Sources and Climate Change Mitigation*, edited by O. Edenhofer, R. Pichs Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadnear, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlömer and C. von Stechow. Special Report of the Intergovernmental Panel on Climate Change (IPCC). (Cambridge University Press, 2011). 1088 pages. ISBN 978-1-107-60710-1 (Paperback) and ISBN 978-1-107-02340-6 (Hardback).
 - *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation*, edited by O. B. Field, V. Barros, T. F. Stocker, Q. Dahe, D. J. Dokken, K. L. Ebi, M. D. Mastrandrea, K. J. Mach, G. Plattner, S. K. Allen, M. Tignor, and P. M. Midgley. Special Report of the Intergovernmental Panel on Climate Change (IPCC). (Cambridge University Press, 2012). 608 pages. ISBN 978-1-107-60780-4 (Paperback) and ISBN 978-1-107-02506-6 (Hardback)
- “*Efficient Capacity Investment and Joint Production Agreements in an Oligopolistic Electricity Market: The HidroAysén Joint Venture Project*”, with Gonzalo Contreras. *Energy Policy*, Vol. 38 N°11, pg 6551 a 6559, November 2010.
- “*Combined Cycle Unit Controllers Modification for Improved Primary Frequency Regulation*”, with Carmona S., Rios S., Peña H, y Nakig G. *IEEE Transactions on Power Systems*, Vol. 25 N° 3, pg 1648-1654, 2010.
- “*Asset Life and Pricing the use of Infrastructure: the case of Electricity Transmission in Chile*”, *Energy Policy*, Vol. 38, N° 1, pg 30-41, January 2010.
- *Anales del 2° Encuentro Latino Americano de Economía de la Energía: Seguridad Energética, Integración y Desarrollo en América Latina*. Editorial Pontificia Universidad

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- Católica de Chile – Edición N° 1. Ricardo Raineri Editor. N° ISBN 978-956-14-1043-5. 2009.
- “*Integrating Large Wind Farms into Transmission Planning of Hydrothermal System*”, with Raby, M. Ríos, S. Jerardino, S. *Journal of Energy Engineering- ASCE*, Vol. 135/3 pg 89-97, Sept. 2009.
 - “*From a bundled energy - capacity pricing model to an energy - capacity - ancillary services pricing model*”, with R. Arce, S. Ríos, and C. Salamanca. In *Energy Policy*, Vol. 36/2008 pp 2,868-2,876. 2008.
 - Chapter 4 in book *Telecomunicaciones: Convergencia y Nuevos Desafíos*, Aldo Gonzalez editor. Published by Universidad de Chile y Subtel. Chapter 4 “*Cargos de acceso y simultaneidad tarifaria en Servicios de Telecomunicaciones*”, pg. 131-182. 2008.
 - “*Chronicle of a Crisis Foretold: Energy Sources in Chile*”, *IAEE Newsletter (International Association for Energy Economics Newsletter)*, pg. 27-30, *Fourth Quarter 2007*.
 - “*Field Simultaneous Measurements, Modeling and Simulation of Harmonic Components in a Small Generation-Transmission Network*”, with S. Ríos, J. Fuster, A. Dán, y Z. Czira. *European Transaction on Electrical Power*. Vol 17, pp. 37-46, 2007.
 - “*Global Corporate Governance and Takeovers in Electric Utilities: The Case of ENERSIS, ENDESA, and DUKE Energy*”, *International Journal of Global Energy Issues*, in a *Special Issue on Advances in Energy Finances*. Vol. 26, Nos. 1/2, pp. 170-212. 2006.
 - Chapter 3 in Book *Electricity Market Reform: An International Perspective*, Fereidoon P. Sioshansi and Wolfgang Pfaffenberger editors. Chapter 3: “*Chile: Where it all started*”. pp. 77-108. Series: *Global Energy Policy and Economics*, Elsevier 2006.
 - “*Technical and Economic Aspects on Ancillary Services Markets in the Electric Power Industry: An International Comparison*”, with S. Ríos, and D. Schielle. *Energy Policy*. Vol. 34, pp. 1540-1555, 2006.
 - “*Dynamic Performance and Resource Mix Modification in Competitive Environment*”, with S. Ríos and M. Roca. *IEE Proceedings in Generation, Transmission and Distribution*. Vol. 152, N° 6, pp. 770-779, November 2005.
 - “*Price and Access Charge Discrimination in Electricity Distribution: An Application to the Chilean Case*”, with P. Giaconi. *Energy Economics*. Vol. 27, N° 5, September 2005, pp. 771-790.
 - “*Business Opportunities and Dynamic Competition through Distributed Generation in Primary Electricity Distribution Networks*”, with S. Ríos and R. Vasquez. *Energy Policy*. Vol. 33., N° 17, pg. 2191-2201, November 2005.
 - “*Secondary Market and Futures Markets for the Provision of Gas-pipeline Transportation Capacity*”, with A. Kuflick. *The Energy Journal*, Vol. 24, No. 1, pg. 23-47. 2003.
 - “*Propiedad Privada, Estado Empresario y Principio de Subsidiariedad: Las Ideas de Antaño con Herramientas de Hoy*”. *Revista Chilena de Derecho*, Vol. 28, No. 2, pp. 311-344. 2001.
 - *Management en Administración de la Información*, 2000, in *Diario Financiero and Financial Times*, articles:
 - “*La atención: la siguiente frontera de la información*”;

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- “*El turno de las empresas grandes pero pequeñas*”;
- “*Mercados para todo en la economía en red*”;
- “*Fundamentos esenciales de la administración de la información*”.
- *Buscando el Control de la Corporación: El Ingreso de Endesa España a la Propiedad de Enersis*. Universidad S.A. and M.N. Consulting Ltda. Publisher. Author Ricardo Raineri. 1999.
- “*Competition through Liberalization: The Case of Chile*”. With Nicolás Majluf. In *Competition Policy, Deregulation, and Modernization in Latin America*, Joseph Taulchin and Moisés Naim editors, The Woodrow Wilson Center, Washington D.C. U.S.A. Rienner Publishers. Chapter 5, pp. 73 - 93, 1999.
- “*Restructuring the Chilean Electric Industry: From Monopoly to Competition*”. With Hugh Rudnick. *Power Economics*. Vol. 2, No. 7, pp. 41-43, September 1998.
- “*Restructuring Chilean Electric and Gas Industries: From Monopolies to Competition*”. With Hugh Rudnick. In *International Energy Markets, Competition and Policy*. James L. Sweeney Editor. United States Association for Energy Economics and International Association for Energy Economics. pp. 390-399, 1997.
- “*Transmission Pricing Practices in South America*”. With Hugh Rudnick. *Utility Policy*. Vol. 6, No. 3, pp. 211-218, September 1997.
- “*Analysis of Service Quality Standards for Distribution Firms*”. With Hugh Rudnick, in *(De)Regulation and Competition: The Electric Industry in Chile*. Pp. 259 - 294, Ilades-Georgetown University. Felipe Morandé and Ricardo Raineri Editors, 1997.
- “*Chilean Distribution Tariffs: Incentive Regulation*”. With Hugh Rudnick, in *(De)Regulation and Competition: The Electric Industry in Chile*. Pp. 223 - 257, Ilades-Georgetown University. Felipe Morandé and Ricardo Raineri Editors, 1997.
- “*Importance of Entry Barriers to the Electrical Generation Industry*”. *(De)Regulation and Competition: The Electric Industry in Chile*. pp. 137 - 192, Ilades-Georgetown University. Felipe Morandé and Ricardo Raineri Editors, 1997.
- “*Importancia de las Barreras de Entrada a la Industria de Generación Eléctrica*”. *La Industria Eléctrica en Chile: Aspectos Económicos*. Ilades-Georgetown University. Felipe Morandé Editor. pp. 143-194, 1997.
- “*Why We Should Regulate Quality in Electric Distribution Utilities, or Why We Should Not*”. In *(De)Regulation of Energy: Intersecting Business, Economics and Policy*. Michael C. Lynch Editor. United States Association for Energy Economics and International Association for Energy Economics, pp. 20-29, 1996.
- “*Industrial Organization Implications of Gas Pipeline Technology*”. In *Into the Twenty-First Century: Harmonizing Energy Policy, Environment, and Sustainable Economic Growth*, Hillard G. Huntington editor, International Association of Energy Economics, Washington D.C. pp. 111-117, 1995.
- “*Gas Pipeline Transportation: Competing within Ex-ante Increasing Return to Scale and Sunk Costs*”. *Revista de Análisis Económico*, Vol. 12, Nº 1, pp. 85-116, 1997.
- *(De)Regulation and Competition: The Electric Industry in Chile*. Ilades-Georgetown University. Felipe Morande and Ricardo Raineri Editors. 1997.

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- *La Industria Eléctrica en Chile: Aspectos Económicos* . Ilades-Georgetown University. Felipe Morandé Editor. Rafael Charún G., Ricardo Raineri B., Raimundo Soto M. Associate Editors. 1996.
- “*Modelando una function de exportaciones con el precio de los insumos como variable independiente: Una nota*”. With Felipe Morandé. In *Estudios de Economía*, Universidad de Chile, Vol. 16, N° 1, pp. 155-175 , 1989.
- “Un caso de Política Económica: Colombia 1973-1984” Carlos F. Cáceres y Francisco Rosende Directors. *Tinker Foundation - Escuela de Negocios de Valparaíso, Fundación Adolfo Ibáñez*. 1986.

CONFERENCES

- **37th IAEE International Conference, “Energy and the Economy”**, Presider Closing Plenary Session and Student Poster Session Award, “*Global Energy Demand Growth*”, New Yorker Hotel, June 15 -18, 2014, New York City – USA.
- Keynote speaker **IAEE Conference “Energy Policies in Latin-America: Key “Drivers” and Characteristics**”, April 22-23, 2014, Medellín – Colombia.
- Keynote speaker in **ESMAP, The World Bank Group, Conference Rethinking the Future of Energy**, Session “*How would we wean ourselves off fossil fuels, and what would this mean for productivity and investment?*”, March 2014, Washington D.C.
- Keynote Speaker and Panel Discussion, Senado Federal – Comissão de Relações Exteriores e Defesa Nacional, **Ciclo de Debates sobre as Perspectivas da Integração Elétrica na America do Sul: Seminário sobre Integração no Arco Norte**. November 21, 2013. Brasília – DF, Brazil.
- Panelist on **A Presentation on the World Bank Group’s Newly Released Doing Business 2014 Report**, Center for Strategic and International Studies CSIS, Washington, D.C., October 31, 2013.
- Keynote speaker in **Café Filosófico programa Invención de lo Contemporáneo**, Special of the Electric Industry: “*A Importância e os desafios da matriz eléctrica de fontes renováveis*”, Instituto CPFL – Cultura, Campinas – Brasil, June 5 2013.
- Keynote speaker in **A Energia na Cidade do Futuro, “Perspectivas da Matriz Eléctrica Brasileira I – um olhar sobre as tendências e os desafios das fontes renováveis”**, CPFL Energia, Campinas. Sao Paulo, Brasil, June 7 2013.
- **4th Latin American Meeting on Energy Economics ELAEE/IAEE “Energy Trends in Latin America: Towards Regional Integration and Sustainability”**, March 2013, Montevideo – Uruguay, Title of the Presentation: “*Energy Integration: Development as a regional Challenge*”.
- **VII GESEL Seminário Internacional de Integração Elétrica da América do Sul**, August 2012, Rio de Janeiro - Brazil, Title of the Presentation: “*Desafios e Perspectivas da Integração Elétrica*”.

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- **National Telecommunications Secretariat of Ecuador "Workshop on Competition in Telecommunications"**, Quito - Ecuador, April 2011, Title of Presentation: *"Effects of Competition in Telecommunications Markets"*.
- **Conference of the Systems Group at the National University of Colombia and Medellin Public Enterprises (EPM) "Pathways to a low carbon economy"**, March 2012, Medellín – Colombia, Title of the Presentation: *"Opportunities in Energy Integration in Latin America for a Low Carbon Economy"*
- **International Seminar on Energy PUCV**, November 2011, Viña del Mar – Chile, Title of the Presentation: *"Vision and Opportunities of Energy Integration in South America"*.
- **VI SISEE International Seminar on Electrical Energy Sector**, August 2011, Foz de Iguazú - Brazil, Title of the Presentation: *"Vision and Perspective in South America Energy Integration"*.
- **Conference APEMEC**, June de 2011, Santiago - Chile, Round Table " *Public Policies for mini hydro* "
- **1st Hydro Power Latin America Summit: Generation, transmission, projects & investment in Latin America's hydro sector**, Round Table: *"Country policies related to the Hydroelectric sector in Latin America"*, May 2011, Sao Paulo – Brazil.
- **Conference Generación Empresarial**, April 2011, Santiago - Chile, Title of the Presentation: *"Challenges and opportunities of the energy matrix in Chile"*
- **Conference Chilean Swedish Chamber of Commerce**, April 2011, Title of the Presentation: *"Vision and Perspective of the Electricity Sector in Chile"*
- **International Conference GESEL-UFRJ**, March de 2011, Rio de Janeiro - Brazil. Title of the Presentation: *"Investment Opportunities in the Chilean Electricity Sector"*
- **3^{er} Latin American Meeting on Energy Economics ELAEE/IAEE "Energy, Climate Change and Sustainable Development: Challenges for Latin America"**, April 2011, Buenos Aires – Argentina, Title of the Presentation: *"Strengths and Threats in the Regional Energy Integration"*.
- **2° Latin American Meeting on Energy Economics ELAEE/IAEE "Energy Security, Integration and Development in Latin America"**, March 2009, Santiago – Chile, Title of the Presentation: *"Process and Product Technological Innovations in Natural Monopolies"*, with Carlos Salamanca.
- **2° Latin American Meeting on Energy Economics ELAEE/IAEE "Energy Security, Integration and Development in Latin America"**, March 2009, Santiago – Chile, Title of the Presentation: *"Efficient Capacity Investment and Joint Production Agreements in an Oligopolistic Electricity Market: The HidroAysén Joint Venture Project"*, with Gonzalo Contreras.
- **28th Annual North American Conference of the USAEE/IAEE: "Unveiling the Future of Energy Frontiers"**, December 2008, New Orleans-US. Title of the Presentation: *"Efficient Capacity Investment and Joint Production Agreements in an Oligopolistic Electricity Market: The HidroAysén Joint Venture Project"*.
- **1st Latin American Meeting on Energy Economics ELAEE/IAEE "Energy policies in Latin America: Integration or Energy Nationalism"**, May 2008, Salvador de Bahía –

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- Brazil, invited as Keynote Speaker. Title of the Presentation: *“Chile: Chronicle of an Energy Crisis Foretold and Opportunities for Future Development”*
- **27th Annual North American Conference of the USAEE/IAEE**, September 2007, Houston - Texas. Title of the Presentation: *“Asset Life and pricing the use of infrastructure: the case of Electricity Transmission in Chile”*.
 - **Conference “Energy and its' future development model”**, October 2007, Facultad de Economía y Negocios UDD, Invited speaker. Title of the Presentation: *“Theoretical models of Energy”*.
 - **Conference “Telecommunication in Chile, + market or + regulation?”**, August 2007, Centro de Políticas Públicas Pontificia Universidad Católica de Chile, Invited speaker. Title of the Presentation: *“Telecommunication in Chile, + market or + regulation?”*.
 - **Conference “Regulatory Telecommunications Conference: Convergence and new challenges”**, May 2007, Facultad de Economía y Negocios, Universidad de Chile, Invited speaker. Title of the Presentation: *“Access Charges and Simultaneous Pricing in Telecommunications”*.
 - **29th IAEE - GEE International Conference**, 7-10 June 2006 in Potsdam - Germany, *Electricity Reform Round Table I Chile: Where it all started*, IAEE - GEE.
 - **Energy Week 2006, Clean Energy for Development. World Bank**. March 6-9, 2006. Washington D.C.-USA.
 - **25th Annual North American Conference of the USAEE/IAEE**, September 2005, Denver, Colorado - USA. Title of the Presentation: *“Technology Adoption and Reliability in Electricity Distribution: Pricing Distributed Generation”*.
 - **Conference “Unbundling Telecommunication Network”**, Chilean Engineering Professional Association (Colegio de Ingenieros de Chile A.G.). Telecommunication Board, Invited Speaker. April 2005.
 - **Conference on Natural Gas: “Natural Gas Supply, Short and Medium Term Projections”**. Pontificia Universidad Católica de Chile. Presentation: *“Natural Gas Market Structure: Present and Feasible Future”*. April 2005.
 - **SUBTEL - MINECON, “Two decades of regulation in the telecommunication industry: It's time for a change?”**, December 2004.
 - **Conference Liquefied Natural Gas: “LNG: projections and Options for Chile”**. Pontificia Universidad Católica de Chile and Gas Technology Institute. Presentation: *“Feasible Financing Sources in Chile”*. December 2004
 - **Conference “Two decades of regulation in the telecommunication industry: It's time for a change?”**, Chilean Engineering Professional Association (Colegio de Ingenieros de Chile A.G.). Telecommunication Board, Invited Speaker. October 2004.
 - **LACEA, Latin American Meeting of the Econometric Society, Santiago - Chile**, *“Telecommunication Network Competition: An Equilibrium Analysis”*. July 2004.
 - **2° National Telecommunication Conference (Bogotá - Colombia) “La Competitividad de los Servicios”**, Organized by Unión Javeriana, Federación de Asociaciones de Profesionales Javerianos, with the support of Facultad de Ingeniería and the Asociación de Ingenieros

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- Javerianos, Pontificia Universidad Javeriana, Invited as Distinguished International Speaker to give the presentation "*International Experience: The Case of Chile*". June 2004.
- **Seminar in the Facultad de Ingeniería of the Pontificia Universidad Javeriana**, Bogotá - Colombia, "*Telecommunication Industry Projection*". June 2004.
 - **Seminar in the Facultad de Ciencias Económicas y Administrativas of the Pontificia Universidad Católica de Chile**, "*Telecommunication Network Competition: An Equilibrium Analysis*". June 2004.
 - **Conference "Projection of the Telecommunication Industry"**, Chilean Engineering Professional Association (Colegio de Ingenieros de Chile A.G.). Telecommunication Board, Invited Speaker for a panel on "*Telecommunication Industry Projection*". 2003.
 - **23th Annual North American Conference of the USAEE/IAEE**, Mexico City - Mexico. Title of the Presentation: "*Business Opportunities in the Use of Distributed Generation in Primary Electricity Distribution*". 2003.
 - **Chilean Annual Economist Meeting**. Title of the presentation: "*Telecommunication Network Competition: A General Equilibrium Analysis*". Punta de Tralca - Chile. 2003.
 - **III International Finances Conference**. Title of the presentation "*Public Stock Buy Offers and Dual Stock in Chile*". Santiago - Chile. 2003.
 - **VII Annual Conference of the Latin America and Caribbean Law and Economics Association**, ALACDE, Invited as speaker. Title of the presentation: "*Law, Innovation and Competitiveness*". Santiago - Chile. 2002.
 - **Economics Seminar Universidad Alberto Hurtado**. Invited as speaker. Title of the presentation: "*The Telecommunication Industry*", Santiago - Chile. 2002.
 - **22nd Annual North American Conference of the USAEE/IAEE**. Title of the Presentation: "*Free, Regulated, and Simulated Markets in the Diagnosis of Chilean Electricity Crises*". Vancouver - Canada. 2002.
 - **Conference "Telecommunications: The Challenge of a regulation for Competition"**, University of Chile Law School, Invited speaker. Title of the presentation: "*Conflicts and complaints resolution procedures with the authority*". Santiago - Chile. 2002.
 - **Chilean Annual Economist Meeting**. Title of the presentation: "*Price and access charge discrimination in electricity distribution: an application to the Chilean case*". Punta de Tralca - Chile. 2002.
 - 2002, **Conference "Tariff Models"**, Chilean Engineering Professional Association (Colegio de Ingenieros de Chile A.G.). Telecommunication Board, Invited Speaker for a panel on Tariff Models. Santiago - Chile.
 - **Engineering Seminar Universidad Diego Portales**. Invited as speaker. Title of the presentation: "*The Telecommunication Industry*", Santiago - Chile. 2002.
 - **2nd World Congress Corporate Governance**. Title of the presentation: "*A Case Study of Endesa Spain*". Mumbai - India. 2002.
 - **II Finance Conference**. Title of presentations: "*Becoming Global: The Entry of ENDESA Spain in the Property of ENERSIS and the DUKE Energy Contest*"; "*The value of business conglomerates in the Chilean Companies Performance (1990-2000)*"; "*The Market for Corporate Control in Chile*". Santiago - Chile. 2002.

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- **Seminar *Tariff regulation in the Telecommunication Sector***. Organized by the Chilean Chamber of Commerce, Fundación Pacífico, Pontificia Universidad Católica de Chile, Universidad de Chile. Title of the presentation: “*Access Charges*”. Santiago - Chile. 2001.
- ***First International Conference of Commercial Engineering and Business Administration Students***, Universidad de Tarapacá. Title of the Presentation: “*Private Property, Entrepreneur State, and Subsidiary Principle: From the Classics to the Growth with Equality*”. Arica - Chile. 2001.
- ***Chilean Annual Economist Meeting***. Title of the Presentation: “*Secondary Market and Futures Markets for the Provision of Gas-pipeline Transportation Capacity in Developing Markets*”, Punta de Tralca - Chile. 2001.
- ***First Meeting of Electricity Law advocated to the analysis of the Institutions and Electricity Management***, Pontificia Universidad Católica de Chile Law School. Title of the presentation: “*Free, Regulated and Simulated Markets in the Diagnosis of Electricity Crises*”. Santiago - Chile. 2001.
- “***Multidisciplinary Seminar on Constitutional Guarantees: Commemoration of the 20 Years of the Constitution, in Honor to Professor Enrique Evans de la Cuadra***”, Pontificia Universidad Católica de Chile Law School. Title of the Presentation: “*Private Property, Entrepreneur State and Subsidiary Principle: Ideas from the Past with Today Tools*”. Santiago - Chile. 2001.
- **United States Association for Energy Economics (USAEE) and International Association for Energy Economics (IAEE)**. Title of the presentation: “*Secondary Market and Futures Markets for the Provision of Gas-pipeline Transportation Capacity in Developing Markets*”. Philadelphia, Pennsylvania - USA. 2000.
- ***Chilean Annual Economist Meeting***. Title of the presentation: “*Public Stock Buy Offers and Corporate Governance*”. Presentation made in the context of a panel that analyzed the new Chilean Law on “Public Stock Buy Offers and Corporate Governance of year 2000”. 2000.
- **The Executive Program for the Americas**, MIT - Sloan Business School. Title of the presentation: “*Doing Business in Chile: The Entry of ENDESA Spain in the Property of ENERSIS and the DUKE Energy Contest*”. Cambridge, Massachusetts. 1999.
- **United States Association for Energy Economics (USAEE) and International Association for Energy Economics (IAEE)**. Title of the presentation: “*Becoming Global: The Entry of ENDESA Spain in the Property of ENERSIS and the DUKE Energy Contest*”. Orlando, Florida - USA. 1999.
- **United States Association for Energy Economics (USAEE) and International Association for Energy Economics (IAEE)**. Title of the presentation: “*Controlling a Natural Monopoly: The Pricing Rule for Chilean Electric Distribution Utilities*.” Albuquerque, New Mexico - USA. 1998.
- **Strategic Management Society**, Panel: “*Business Strategies for Coping with Competitive Liberalization: The Case of Chile*”, Panelists: Patricio del Sol, Nicolas Majluf and Ricardo Raineri. Barcelona - Spain. 1997.

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- **United States Association for Energy Economics (USAEE) and International Association for Energy Economics (IAEE).** Title of the presentations: "*Auction, Strategy and Deregulation: Sequential and Simultaneous Bidding for a Divisible Good*"; and "*Restructuring Chilean Electric and Gas Industries: From Monopolies to Competition*". San Francisco California - USA. 1997.
- **Energy Modeling Forum, 15 Working Group,** with Hugh Rudnick. Title of the presentation: "*Emerging Issues on Market Design in the Latin-American Electricity Market*". Stanford California - USA. 1997.
- **Energy Modeling Forum, 15 Working Group,** with Hugh Rudnick. Title of the presentation: "*Transmission Pricing Practices in South America*". Stanford California - USA. 1997.
- **Power Markets and Resource Management,** with Hugh Rudnick. Title of the presentation: "*Has Yard Stick Competition Proved a Reasonable Approach for Distribution Pricing in South America*". USA. 1996.
- **United States Association for Energy Economics (USAEE) and International Association for Energy Economics (IAEE).** Title of the presentation: "*Why We Should Regulate Quality in Electric Distribution Utilities, or Why We Should Not*". Boston Massachusetts - USA. 1996.
- **International Association for Energy Economics (IAEE).** Title of the presentation: "*Industrial Organization Implications of Gas Pipeline Technology*". Washington D.C. - USA. 1995.
- **CLAIO, VII Latin - Ibero American Conference on Operations Research and Systems Engineering.** Title of the presentation: "*Heterogeneity, Schooling and Cohort Size Effects: A General Equilibrium Analysis*". Santiago - Chile. 1994.
- **Econometric Society, XIII Latin American Meeting.** Title of the presentation: "*Gas Pipeline Transportation: Ex-ante Increasing Return to Scale with Sunk Costs*". Caracas - Venezuela. 1994.
- **Chilean Annual Economist Meeting.** Title of the presentation: "*Heterogeneity, Schooling and Cohort Size Effects: A General Equilibrium Analysis*"; and "*Gas Pipeline Transportation: Ex-ante Increasing Return to Scale with Sunk Costs*". Santiago - Chile. 1994.
- **Econometric Society, XI Latin American Meeting.** Title of the presentation: "*Schooling and Cohort Size Effects: An Equilibrium Approach*". Mexico City - Mexico. 1992.
- **Society for Economics Dynamics and Control.** Title of the presentation: "*Schooling and Cohort Size Effects: An Equilibrium Approach*". Montreal - Canada. 1992.

ADVISORY AND KNOWLEDGE SERVICES

- Project: "Concesión de Frente Costanera del Puerto de San Antonio e Incentivos de Concesionarios Preexistentes" ("Port Concession of Frente Costanera of San Antonio Port"). Work done for Empresa Portuaria San Antonio S.A. (EPSA). 2008.

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- Project: “Análisis del Mercado de Telefonía Móvil e Incentivo de Operadores Preexistentes ante el Concurso de la Banda 3G en Chile” (“Analysis of the Mobil Telecommunication Market and Incumbent Incentives in light of the 3G frequency band bidding in Chile”). Work done for Nextel S.A. 2007-2008.
- Project: “Convergencia tecnológica y experiencia comparada: propuestas de actualización regulatoria para el siglo XXI” (“Technology Convergence and comparative experience: regulatory update proposals for the XXI century”). Work done for Telefónica del Sur S.A. 2006-2007.
- Project: “Tarificación de Servicio de Apoyo en Postes a Proveedores de Servicios de Telecomunicaciones” (“Pole attachment pricing for telecommunication service providers”). Work done for VTR Globalcom S.A. 2006-2007.
- Project: “El Proyecto Hidroeléctrico Aysén y sus efectos en la competencia en el sector generación - transmisión” (“The Aysén Hydropower Project and its effects on competition in the generation - transmission sector”). Work done for Colbún S.A. 2006-2007.
- Project: “Criterios para definir la Vida Útil Económica de las Inversiones en Transmisión Troncal” (“Criteria to define economic lifespan of main electricity transmission investments”). Work done for Transelec S.A. 2006-2007.
- Project: “Determinación de la Tasa de Costo de Capital para Gasco Magallanes” (“Capital Asset Price for Gasco Magallanes”) Work done for Gasco S.A. 2005-2006.
- Project: “Suministro de gas natural a Chile desde Argentina: antecedentes e historia hasta 2004” (“Natural gas supply from Argentina to Chile: background and history through 2004”). Work done for Nestle Chile S.A. 2005.
- Project: “Perito designado de común acuerdo por la Subsecretaría de Telecomunicaciones, el Ministerio de Economía y la empresa de telefonía fija Manquehue Net S.A. para resolver las materias en controversia respecto de las tarifas reguladas de Manquehue Net S.A.” (Expert Witness chosen by agreement between the Chilean Telecommunication Sub secretary, the Ministry of economy, and Manquehue Net (landline Telephone Company) to solve controversies on the determination of access charges). November 2004.
- Project: “Desagregación de Redes y Reventa de Servicios de Telecomunicaciones: Extensión de la Obligación a los Operadores No Dominantes” (“Network’s unbundling and the resale of telecommunication services: extension of the mandate to non-dominant operators”). Work done for VTR-GlobalCom S.A. 2004.
- Project: “Impacto de un Cambio en los Cargos de Acceso sobre la Telefonía Móvil y la Telefonía Fija” (“Impact of a Change on Access Charges on Mobil Telecommunications and Landline Telecommunications”). Work done for Quiñenco S.A. (Headquarters of VTR S.A.). 2003.
- Project: “Discriminación de Precios en el Acceso a la Red de una Empresa Dominante de Telefonía Local Integrada a Mercados Potencialmente Competitivos: Una Nota” (“Price Discrimination in the Access to the Network of a Dominant Company in Local

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- Telecommunications Vertically Integrated into Potentially Competitive Markets: A Note”). Work done for VTR-GlobalCom S.A. 2003.
- Project: “Monopolio, Competencia Dinámica y Cargos de Interconexión en Telefonía Móvil” (“Monopoly, Dynamic Competition and Access Charges in Mobile Telecommunications”). Work done for VTR-GlobalCom S.A. 2002-2003.
 - Project: : “Análisis Comparativo de Cargos de Interconexión en Telefonía Móvil” (“A Benchmark Study of Interconnection Charges in Mobile Telecommunications”). Work done for ATELMO A.G. (Gremial Association of Chilean Mobil Operators). 2002.
 - Project: “Cargos de Acceso en Empresas de Telecomunicaciones en Presencia de una Empresa Dominante en el Mercado de Telefonía Local” (“Access Charges for Telecommunications Companies in light of a Dominant Local Operator”). Work done for VTR-GlobalCom S.A. 2001-2002.
 - Project: Fondecyt No. 1010750 (Chilean National Sciences Foundation). “Desarrollo de métricas dinámicas de calidad de servicio en sectores de generación-transmisión y su evaluación económica” (“Development of Dynamic Metrics to Measure the Quality of Service for a Generation and Transmission System and its Economic Evaluation”), researcher. 2001-2002.
 - Project: “Contratos y Calidad de Suministro Eléctrico en el SING” (“Contracts and Quality of Electricity Supply in the SING - Northern Chilean Interconnected Electricity Supply System-”). Work done for Electroandina S.A. 2001.
 - Project: “Costo de Falla y Precios para Valorizar las Transferencias de Energía en el CDEC (“Failure Cost and Prices to Value Energy Transfers in the CDEC - Chilean Main Interconnected Electric System Operator-”). Work done for Endesa S.A. 1998.
 - Project: “Perito designado de común acuerdo entre la Subsecretaría de Telecomunicaciones y CTC-STARTEL para resolver las materias en controversia respecto de las tarifas reguladas de CTC-STARTEL (empresa de telefonía móvil filial de Telefónica CTC Chile)” (Expert chosen by agreement between the Chilean Telecommunication Sub secretary and CTC-STARTEL -Mobile Telephone Company- to solve the controversies on key parameters used for the determination of mobile phone access charges). December 1998.
 - Project: “Perito designado de común acuerdo entre la Subsecretaría de Telecomunicaciones y CTC-STARTEL para resolver las materias en controversia respecto de las bases técnico económicas utilizadas para la determinación de las tarifas de interconexión de CTC-STARTEL -empresa de telefonía móvil filial de Telefónica CTC Chile-” (Expert chosen by agreement between the Chilean Telecommunication Sub secretary and CTC-STARTEL -Mobile Telephone Company- to solve controversies on the technical and economic basis for the determination of mobile phone access charges). March 1998.
 - Project: “The Sistema Interconectado del Norte Grande and the Gas Atacama Project”. Work done for Credit Suisse First Boston of New York and Chase Manhattan Bank of New York. 1997-1998.

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- Project: “Análisis del Impacto de la Incorporación de la Central Hidroeléctrica Ralco y de Alternativas Vía Centrales de Ciclo Combinado” (“Analysis of the Impact of the Incorporation of Ralco Hydropower Plant and Alternative Gas Combined Cycle Power Plants”). Work done for Endesa S.A. 1997.
- Project: “Estudio de Valores Agregados de Distribución” (“Electricity Distribution Value Added Study”). 1996. Work done for Chilectra S.A.
- Project: “Tarificación de la Sub-transmisión” (“Electricity Sub Transmission Pricing”). Work done for Chilectra S.A. 1996-1997.
- Project: “Relevancia de las Barreras de Entrada a la Industria de Generación Eléctrica” (“Relevance of Entry Barriers in the Electricity Generation Industry”). Work done for Enersis S.A. 1996.
- Project: Fondecyt # 1960397 (Chilean National Science Foundation). “Organización Industrial en el Transporte de Gas Natural y Electricidad” (“Industrial Organization on Natural Gas and Electricity Transportation”). Main researcher. 1996-1997.
- Project: Fondecyt # 1971265 (Chilean National Science Foundation). “Desarrollo de los Sistemas Eléctricos de Distribución - Optimización y Tarificación” (“Development of Distribution Electricity Systems - Optimization and Pricing”). Researcher. 1997-1998.
- Project: “Gestión del Holding: Estructura de Incentivos” (“Corporate Management: Incentive Structure”) Work done for Comercial Modo Ltda., Chilean Corporation of Americanino, Unlimited, Made in Europe, and AM. J. Publicidad. 1996.
- Project: “Calidad de Servicio y Tarificación en Sistemas Eléctricos de Distribución en Chile” (“Service Quality and Pricing of Electric Distribution Systems in Chile”). Work done for Chilectra S.A. 1995-1997.
- Project: “Evaluación Estratégica de una Lavandería Industrial para una Firma Líder en la Industria del Jeans” (“Strategic Evaluation of an Industrial Laundry for a Leader Jeans Company”). Work done for Comercial Modo LTDA. 1995-1996.
- Project: "Implicancias de la Tecnología de Transporte de Gas Natural sobre la Organización Industrial del Sector" ("Natural Gas Transportation Technology Implications on the Sector's Industrial Organization"). Work whose objective was the review of the proposed law to account for the entry of imported natural Gas in Chile, work done for the Chilean National Energy Commission (CNE). 1993-1994.
- Project: “The Process of Modernization of the Chilean Economy”. Work done for The Woodrow Wilson Center, Latin American Program. 1995.
- Project: “Economías de Escala, Monopolio, Regulación y Competencia en el Sector Transmisión y su Relación con la Legislación Vigente” (“Scale Economies, Monopoly, Regulation and Competition in the Transmission Sector and its Relation to Current Legislation”). Work done for Transelec, and Endesa S.A.. 1994-1995.

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OTHER PROFESSIONAL ACTIVITIES

- Member of the Organizing Committee of the 5th ELAEE, International Conference of the Latin American Association for Energy Economics (ALADEE), Intercontinental Hotel, Medellin - Colombia, 2015.
- Member of the Organizing Committee of the 37th IAEE International Conference, “Energy and the Economy”, New Yorker Hotel, New York City, June 15 -18, 2014.
- Expert Witness, Tribunal de Arbitramento de Empresa de Telecomunicaciones de Bogotá S.A. ESP versus UNE EPM Telecomunicaciones S.A., November 2012, Chamber of Commerce of Bogotá, Colombia.
- Honory Member of the Organizing Committee of the 3^{er} Latin American Meeting on Energy Economics ELAEE/IAEE “Energía, Cambio Climático y Desarrollo Sostenible: Los Desafíos para América Latina”, www.elaee2011.org. Centro de Convenciones Universidad Católica de Argentina, April 2011, Santiago – Chile.
- Member of the Program Committee of the 33^o International Meeting on Energy Economics IAEE “The Future of Energy: Global challenges, diverse solutions”, <http://ab3e.org.br/rio2010/>. Hotel Intercontinental Rio Hotel – Rio de Janeiro, June 6-9, 2010, Brasil.
- Organizer and President of the Academic Committee of the 2^o Latin American Meeting on Energy Economics ELAEE/IAEE “Seguridad Energética, Integración y Desarrollo en América Latina”, www.elaee.org. Hotel Sheraton Convention Center, March 2009, Santiago – Chile.
- 2008. Selected by the Central Bank of Chile to be part of a list of three candidates from which the President of Chile chooses an economist to integrate the Anti-trust and Free Competition Court.
- 2006-2008. Member of the Energy Commission of the Chilean Engineering Institute (Instituto de Ingenieros A.G.).
- 2007. Member of the Telecommunications Commission of the Chilean Engineering Association (Colegio de Ingenieros de Chile A.G.).
- 2006-2007. Selected as Expert between Compañía de Telecomunicaciones de Chile S.A. and VTR Banda Ancha (Chile) S.A. to provide an opinion to the Court with respect to the discrepancies on pricing and traffic measures on the 800 number calls.
- 2006-2007. Selected as Expert between Compañía de Telecomunicaciones de Chile S.A. and Empresa Nacional de Telecomunicaciones S.A., Micarrier Telecomunicaciones S.A., y Entel Telefonía Local S.A. to provide an opinion to the Arbitration Judge Mr. Gabriel Villarroel Barrientos with respect to the discrepancies on the application of Compañía de Telecomunicaciones de Chile S.A. access charges.
- 2005. Invited to be part of the CNAP (Chilean Universities Accrediting Institution) Accrediting Committee to evaluate the Industrial and System Engineering program of Universidad Técnica Federico Santa María.

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- 2004. Selected as Expert Arbitrator between the Chilean telecommunication company Manquehue Net S.A. and the Telecommunication Subsecretary (SUBTEL) to solve controversies on access charges.
- 2004. Selected by the Central Bank of Chile to be part of a list of three candidates from which the President of Chile chooses an economist to integrate the Anti-trust and Free Competition Court.
- 2004. Member of the Academic Board of the International Conference “LNG: projections and Options for Chile”, December 2004, organized by Pontificia Universidad Católica de Chile and Gas Technology Institute
- 2004. Member of the Academic Board of the Fifth International Finances Conference held in Santiago - Chile, January 2005
- 2003. Member of the Academic Board of the Fourth International Finances Conference held in Viña del Mar - Chile, January 2004
- 2002. Member of the Academic Board of the Third International Finances Conference held in Santiago - Chile in 2003
- 2002. Member of the Organizing Board of the Chilean Economist Annual Meeting
- 2002. Invited as Expert Witness by the Mining and Energy Board of the Chilean Chamber of Deputies to comment on the economic aspects of the Electric Law Project to modify the 1982 Chilean Electric Law
- 2001. Member of the Board that organized the seminar “Tariff Regulation in the Telecommunication Industry” Organized by the Chilean Chambers of Commerce, Fundación Pacífico, Pontificia Universidad Católica de Chile, Universidad de Chile, Santiago - Chile
- 2001. Founder Member of the Chilean Economists Association
- 2001. Member of the Organizing Board of the Chilean Economists Annual Meeting
- 2001. Advisor to the Hungarian Government for the Licensing - Monitoring - Competition Committee of the Electricity Regulatory Regional Association, on electricity regulation issues
- 2000. Member of the Organizing Board of the Chilean Economists Annual Meeting
- 1999. Member of the Board that evaluated the projects that participated in the contest on Management and Innovation of the Chilean Government
- 1998. In two instances elected as Expert Arbitrator between the Chilean Transportation and Telecommunication Sub secretary (SUBTEL) and the mobile telephone company CTC-STARTEL S.A. to solve controversies on access charge regulation
- 1997. Invited to participate in the Energy Modeling Forum (EMF), Stanford University
- 1996. Economist in charge of the Electricity Distribution Added Value Studies for Chilectra S.A. (main Chilean electric distribution utility).
- 1995. Participated in the Experts Board that determined the Chilectra S.A. investments new replacement values used to set electricity distribution tariffs
- Referee for The Energy Journal; Energy Policy; IEE Proceeding in Generation, Transmission and Distribution; The Encyclopedia of Energy Engineering and Technology;

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- The International Journal of Global Energy Issues; Revista de Análisis Económico; Cuadernos de Economía; and Estudios de Economía
- Referee for Fondecyt projects (Chilean National Science Foundation)