



ALEX O. GODOY-FAUNDEZ

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RESEARCH INTEREST

My research explores the governance of complex and evolving human-ecosystem systems to deliver simple and practical solutions to current sustainability problems like water scarcity and food, waste management, energy and environmental pollution. My main goal is to develop frameworks of analysis for understanding the causes and effects of current events to contribute to national sustainable development through better understanding and integration of local systems - characterized by its natural resources, climate, infrastructure needs engineering, social and political - for the service of decision making techniques to the public policy level, linking science, technology, society and education. Though the use of qualitative and quantitative methods are needed, I attempt to understand if and how a variety of governing programs (such as regulations and planning processes) plan for or adapt to changing social and ecological circumstances. My current work examines the governance of environmental challenges associated with changes in the use and management of ecosystem services.

- Sustainability Assessment of Public Policy;
- Sustainability Science applied to evolving human-environmental systems;
- Environmental Planning, Strategic Resource Management and Policy

ACADEMIC EXPERIENCE

CURRENT POSITION

Associate Professor, School of Engineering, Universidad del Desarrollo (UDD), Chile.

Principal Investigator, iSustainabilityLab, Center for Sustainability and Strategic Resources Management,.

Academic Director, Master's program in Sustainability Management, UDD.

Faculty, Doctorate in Social Complexity Sciences, School of Government, UDD
(<http://doctorado.complejidadsocial.cl/en/personas/faculty/>)

TEACHING

Undergraduate Courses:

- IEL 561 Engineering and Sustainability
- IEL 562 Environmental Decision-Making

Postgraduate Courses at Master's program in Sustainability Management:

- MAGS 462 Engineering, Society and Sustainability
- MAGS 453 Environment, Risk and Health
- PDCS: Social-Ecological Systems

HONORS

Head, Waste to Energy Research and Technology - Chile, WTERT-Chile (www.wtert.org)

Member of Advisory Board, Minister of Environment, Government of Chile.

Member of Scientific Committee, Suizagua Andina Project, Fundación Chile – Swiss Agency for Development and Cooperation.

Member of Scientific Committee, Water Week Latin America Conference, <http://waterweekla.com/comite-waterweekla/> Fundación Chile, Government of Chile.

Member of Scientific Committee, FONDEF program at CONICYT (Comisión Nacional de Ciencia y Tecnología, in English, National Commission for Scientific and Technological Research), Government of Chile.) "Water, Energy and Environmental Area".

Member of Reviewing Committee, Department of International Relations at CONICYT.

Curator of TED Talks, TEDxUDD University An independently organized TED event. Theme: Expanding Borders, UDD, Av. Plaza 680, Santiago, Chile, May 25th, 2013. <http://www.tedxudd.cl>

PAST POSITIONS

Scholar in Residence 2012, Department of Modern Language and Natural Applied Biological Sciences, University of Wisconsin-Green Bay, WI, US August-November, 2012. As a Scholar in Residence at UW-Green Bay, I will teach,

- ENV SCI 318/518 Pollution Control (Team-taught with Professor John F. Katers)
- SPAN 465 Special Topics: Environmental Issues in the Americas.

Associate Professor and Research Fellow (2010-2012), Faculty of Ecology and Natural Resources, Research Fellow, Center for Sustainability, Faculty of Ecology and Natural Resources and Research Associate, Department of Engineering Sciences, Faculty of Engineering, Universidad Andrés Bello (UNAB), Chile
Duties: Representative of Clean Production Agreement, "Protocol for Sustainable Campuses Consortium" among Universities and Government of Chile.

- Undergraduate Courses: CEG2081. Globalization, Global Change and Sustainable Development, IAB406/406. Sustainability, Innovation and Environmental Leadership, IND2214. Environmental Management and Energy BMA315. Biological System Assessment
- Postgraduate Courses: ETU302. Sustainability Indicators, DMC655. Ecosystem services

Analyst, Quality Assurance Department (2006-2009), Vice-rectory for Academic Affairs, UNAB, Chile.

Lecturer,

(2008). School of Engineering and Sciences, Universidad Adolfo Ibáñez, (UAI), Santiago, Chile. Courses: "Science and Technology: History and Environmental Sciences" and "Decontamination Processes".

(2003 – 2006) Department of Biological Sciences, UNAB, Chile. Courses: "Biostatistics" and "Principles of Management".

(2007). School of Engineering, PUC, Course: "Design Systems of Bioremediation of Soils".

(2000 – 2006) Academic Program for Talented Children (PENTA) PUC and Andes Foundation, Chile. Courses: "Pollution and Environment" and "Classic Genetic".

AWARDS AND HONORS

- Best Paper Award in The Seventh International Conference, on Environmental Science and Technology, June 9 -13, 2014, Crowne Plaza, Houston, Texas, USA, Titled Use of Biosolids wastes as Froth Flotation Reagents for Copper Sulphides Concentration.
- International Visiting Scholar, The International Visiting Scholars Program University of Wisconsin-Green Bay and St. Norbert College. WI, US April 3-23, 2011.
- IBM Faculty Innovation Award, 2010 Smarter Cities Skills Innovation Award Program. Course: Smarter Cities: Environmental Decision Making.
- Award for Young Researchers. Fee Remission in 4th European Bioremediation Conference, September 3th to 6th, 2008, Chania, Crete, Greece.
- Awarded in the Innovation Challenge Tournament. Week of innovation sponsorship by Chilean Innovation Forum, UAI and Endeavor. November 2008.
- Awarded in Innovation Challenge for Graduate Student, 2007, Faculty of Engineering, PUC
- Academic Excellence, Conference Poster Award: The Second International Conference on Environmental Science and Technology 2006 sponsored by American Academy of Science will be held on August 19-22, 2006 in Houston, Texas, USA.
- Selected among "Chile's 100 Young Leaders 2006". 2006. Center of Leadership, Universidad Adolfo Ibáñez and Revista El Sábado. www.redlideres.cl.
- Doctoral Student Fellowship CONICYT
- MINEDUC Scholarship, Ministry of Education, Government of Chile, March 1995 – March 1996.

EDUCATION

- Doctor in Engineering Sciences, Chemical Engineering and Bioprocesses Area. School of Engineering, Chemical and Bioprocess Department, Pontificia Universidad Católica de Chile (PUC).
 - Master in Engineering Sciences, in Chemical and Bioprocesses Engineering. School of Engineering, Chemical and Bioprocess Department, PUC.
 - Diploma in Human Capital Management, (2008). eClass program, UAI
 - Professional Qualification as Biologist specializing in Bioprocesses. Faculty of Biological Sciences, PUC.
 - Graduate Certificate in Organization and Human Resources Management. School of Management, Faculty of Economics and Management Science, PUC.
 - Licentiate in Biological Sciences. Faculty of Biological Sciences, PUC.
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TRAINING

- Strategic Leadership, (2008). MBA, UAI – Chile
- Survey Analysis with SPSS, (2007). SPSS Inc. Training and Education Services– Chile
- Education to Distance –e-Blended and e- Learning, (2001). Educative Technologies. UNAB
- Patents, Model's Utility and Industrial Design, (2001). Department of Industrial Property, Ministry of Economy, Foment and re-construction. Government of Chile.
- Creation of New Companies (2000). PUC, Santiago, Chile.
- Strategic Management of Enterprises (2000). PUC, Santiago, Chile.

TEACHING ASSISTANT

(2002). School of Engineering, PUC; Courses: “Environmental Management”; “Biopolymers”.
(1994-2000) School of Biological Sciences, PUC; Courses: “Basic Microbiology”; “Molecular Genetics”; “Reproduction and Development”; “Development and Animal Organization”; “Experimental studies in Ecology”; “Introduction to Biology”; “Evolutive history of Men: Last 2 million years”.

GRADUATE RESEARCH ASSISTANT

2003 – 2006. Laboratory of Solid Wastes: Research: Aerobic bioremediation of desert soils and sawdust contained and contaminated with mixtures of hydrocarbon. Faculty of Engineering, Department of Chemical Engineering and Bioprocesses, PUC– Chile.

2001 – 2002. Laboratory of Microbiology, Focus: Biodiversity of marine bacterial communities in coastal environment with heavy metals pollution. Faculty of Biological Sciences, PUC – Chile.

1998 – 2001. Laboratory of Immunopathogenesis by Helicobacter pylori, Medical Research Center (CIM), Department of Pediatrics, Section of Gastroenterology, Faculty of Medicine, PUC– Chile.

UNDERGRADUATE RESEARCH ASSISTANT

1997 – 1999. Laboratory of Microbiology, Focus: Pathogenesis and techniques in microbiology and bacterial physiology. Faculty of Biological Sciences, PUC – Chile.

1998. Laboratory of Sciences of Materials, Focus: Rheology of hot oils with respect at time and changes of apparent viscosity between commercial oils. Effect of the temperature in the Rheology. Faculty of Engineering, Department of Chemical Engineering and Bioprocess, PUC.

1996. Laboratory of Ecology, Focus: Perspectives of the biotechnological production in macroalgae for a rational use of the phycological resources. Faculty of Biological Sciences, PUC.

1995 – 1996. Laboratory of Reproduction, Focus: Study of GnRH over spermatozoids. Faculty of Biological Sciences, PUC.

RESEARCH AND DEVELOPMENT

AWARDED GRANTS

2014-2019: Water Research Center for Agriculture and Mining (WARCAM), Water & Society area. FONDAP, Financing Fund Research Centers in Priority Areas, Comisión Nacional de Investigación Científica y Tecnológica de Chile (National Commission for Scientific and Technological Research, CONICYT in Spanish), Government of Chile. US\$200.000

2014: App development for clinical treatment for dental students. Fund for development and Innovation in teaching. Universidad del Desarrollo. US\$4.000

2013: Host Grants U.S. Fulbright Senior Specialist 2013, Dr. John F. Katers grantee for Project ID# 5584 by Fulbright Commission - Chile. Name of Institution Hosting Award: UDD, Chile. US\$4.000

2013: New Engineering to 2030. Co-Researcher INNOVA CHILE program, Corporación de Fomento de la Producción (Corporation for Promotion of Production, CORFO in Spanish), Government of Chile. US\$110,000

2012-2013: Design of service-learning methodology for Sustainability and Social Responsibility. Principal investigator. Internal Funds UNAB. US\$10.000

2012-2013: Analysis of bioenergy innovation ecosystem in Chile: Algae as a solution for water treatment, reduction of greenhouse gases and bio-fuel production. Principal investigator. Internal Funds UNAB. US\$10.000

2012-2013: Using different organic matrices for the concentration of sulfide minerals. Co-Researcher. Internal Funds Universidad Andrés Bello. US\$10.000

2011-2012: Development of a system/technology assessment protocol for energy efficiency in the road transport. Co-Researcher. Faculty of Engineering, UNAB - Chilean Association of Energy Efficiency. US\$60.000

2011-2012: Linking Sustainable Consumption and Life Cycle Assessment. . Principal Investigator. Study to Fundación Chile is a private non-profit organization whose members are the Government of Chile and BHP-Billiton - Minera Escondida Ltd.

2010-2013: Angels Investor Network, Platform ProyectoChile, INNOVA CHILE program, CORFO.

2007-2009: "Technology Business Consortium for the development of Thermo solar technologies". Studies of pre-investment consortia (Innovation), Program INNOVA CHILE, 2007. CORFO.

2005-2006: Grant for support and completion of Doctoral Thesis, CONICYT

2003-2006: Industry sponsored program for Doctoral Thesis research by Minera Escondida Ltda.

CONSULTING

2014. Expert contributor, Oxford Analytica Global Analysis & Advisory (www.oxan.com). Oxford Analytica is a global analysis and advisory firm which draws on a macro expert network to advise its clients on strategy and performance in complex markets

2013. Real State Agent, Las Salinas. Sustainability Indicators for a Sustainable Neighborhood Project

2013 National Irrigation Commission (CNR). Project: Sustainability Assessment of National Irrigation Policy through application of systems thinking. US\$10,000

2011-2012: Determination of Greenhouses Abatement Curve. Principal Investigator. Private Funds, Concha y Toro Wine Company. US\$10,000

2010-2012 Fundación Chile, Energy and Climate Change Division. Sustainable Consumption and consumer's behavior.

2011-2013: Environmental Impacts of Sustainable Procurements in Chile. ChileCompra Procurement Bureau, Department of the Treasury, Government of Chile.

2010-2013 Senior Advisor in Innovation and Business, Angels Investor Network, ProyectoChile,

2010-2012 Senior Consultant in Environmental Innovation. Advient, Setting Ideas in Motion. Technological Breakthrough with existing R&D by Scientific Open Innovation, Web 2.0 collaboration platforms and consulting services. www.advient.net

2009. Senior Advisor about Biodiversity and Environment. Project: "Security Energy and Biodiversity: Key Elements for Sustainable Development, and Enhancing the Competitiveness of Chile" Funds: National Congress Library, Government of Chile. Center of Energy and Environment for Public Affairs, Universidad Diego Portales.

2009 Advisor in Bio-Business – OCTANTIS, Universidad Adolfo Ibáñez, Project: "Support for new bio-business. Entrepreneurship, Start up and Venture Capital". Funds CORFO

2009-2011. Advisor in Development and Innovation - Zeltzer, Barberis y Ulloa Associates. Project: "Technology Business Consortium for the development of thermo solar technologies. Funds: Corporación de Fomento de la Producción (Corporation for the Promotion of Production), CORFO.

2006. Advisor to FUNDACIÓN CHILE (Governmental Organization), Environment and Metrology Area. Risk Evaluation and Environmental Remediation program. Development of projects: Science, Technology and Environmental Management.

2006. Advisor to RIALTO (Environmental Consultant), 2006. Focus: Development of diagnostic methodologies by industrial wastes production, Determination of Emissions Factors.

2005. Advisor to CIMM (Metallurgic and Mining Research Centre), 2005. Focus: Advising to CELCO, Celulosa Arauco y Constitución, S.A., Valdivia Pulp Mill.

2005. Advisor to Bayer Chemical S.A. Animal Division Chile, Focus: Study of infringement of invention patents. Copy of products.

2006. Advisor to Minera Escondida Ltda. (BHP-Billiton), Project: Aerobic bioremediation of desert soils and sawdust contained and contaminated with mixtures of hydrocarbon. Design of Bioreactor.

ACTIVITIES AS PEER REVIEW

PROJECT REVIEWER AND STEERING COMMITTEES

- Current Member of Steering Committee of postgraduate programs, National Accreditation Commission, Ministry of Education, Government of Chile.
- PCCA 2011-2014. Executive Agency for Higher Education, Research, Development and Innovation Funding. Evaluator for Partnership Program - Joint Applied Research Projects, Romanian National Council for Development and Innovation and Romanian National Council for Scientific Research.
- Member of Steering Committee- The Best Corporate and Sustainability Report Awards. AccionRSE, representative of WBCSD - World Business Council for Sustainable Development.
- Reviewer for Innovation Projects - Corporación de Fomento de la Producción, CORFO, INNOVA CORFO, Gobierno de Chile
- International Reviewer for Argentine Fund Sector (FONARSEC)- National Agency for Promotion of Science and Technology; Ministry of Science, Technology and Innovation; Republic of Argentina.
- 2011- 2012 Member of Advisory Board, Energy Sustainability Indicators. Department of Sustainable Development, Ministry of Energy, Government of Chile. 2010.
- 2012-2014 Member of Advisory Board, 2012. Sustainable Procurement, ChileCompra Procurement Bureau, Department of the Treasury, Government of Chile.
- 2010-2012 Environmental Advisory Council of the Peñalolen Municipality, Municipality of Peñalolen, Santiago, Chile

REFEREE, PEER-REVIEWER JOURNALS

Associate Editor:

- The International Journal of Sustainability Policy and Practice, Volume 8, Issue 1
- The International Journal of Environmental Sustainability, Volume 8, Issue 1

Peer-Reviewer,

- Science of the Total Environment
- Waste and Biomass Valorization
- Toxicological & Environmental Chemistry
- The International Journal of Environmental, Cultural, Economic and Social Sustainability
- International Journal of Environmental Sustainability
- Water Environment Research
- Journal of Environmental Management
- Biodegradation
- African Journal of Environmental Science and Technology
- Fresenius Environmental Bulletin.

Referee for Peer-Reviewer Books, eBook Publications Department, Bentham Science Publishers.

Reviewer of Abstracts. The Atlanta Conference on Science and Innovation Policy. September 15-17, 2011.

Track Chair, The 16th Annual International Sustainable Development Research Conference, A New Arena for Global Governance, The Kadoorie Institute of The University of Hong Kong, 30 May – 1 June 2010, Hong Kong. <http://www.kadinst.hku.hk/sdconf10/indexin.html>.

- Themes: "The role of education and universities in sustainable development" & "Industrial development and policy and low carbon economy"

MEMBERSHIPS

- Research Fellow of "Public Space" Foundation. Think Tank created by Eduardo Engel, Ph.D. www.espaciopublico.cl.
- Latin American Studies Association. (LASA). <https://lasa.international.pitt.edu/>
- International Research Team, Katerva <http://katerva.net/home/evaluate/policy/mr/> .
- Director, National Association of Energy Services Companies, ANESCO Chile, <http://www.anescochile.cl/>
- 2011-2012 Representative of Global Compact Local Network Chile in Business and Industry Delegation, Regional Preparatory Meeting for Latin America and the Caribbean, ECLAC to UN Conference on Sustainable Development (Rio+20) 7-9 September, Chile.

THESIS ADVISOR FOR CURRENT STUDENTS

SUPERVISOR OF POSTDOCTORAL PROJECT

Ph.D. Douglas Aitken [Ph.D. in Civil and Environmental Engineering, University of Edinburgh] Project: LCA of Water Consumption and Intensity in Chilean Copper Mining Companies Current

THESIS ADVISOR FOR CURRENT GRADUATE STUDENT

- Ms. Tania Mundaca [Master in Sustainability Management, UDD] An approach based on ecosystem services to classify conflict between agriculture and mining activities related to water's rights. Current
- Mr. José María Pérez [Master in Sustainability Management, UDD] Life Cycle Assessment in Premium Wines. Current
- Mr. Matías Bernales [Master in Environmental Management, UDD] Design of Sustainability protocols for Chilean Salmon industry. Current
- Mr. Sebastián Elías [Master in Environmental Management, UNAB] Determination of Greenhouse gas abatement cost curves inside wine industry. 03/2013.

PROJECT SUPERVISOR FOR UNDERGRADUATE STUDENTS

- Mr. Mario Acevedo [Lic. in Industrial Engineering, UDD. Socio-technical analysis, making use of its minor in political science and knowledge in the field of Industrial Engineering, to establish the limitations of the Project of Net-Metering and Net-Billing of Chile (Law 20,571).
- Mr. Jose Muñoz [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB]. Weighting and LCA in Wine Company. Current
- Mr. Cristobal Vilches [Lic. in Marine Biology, Universidad Andrés Bello, UNAB] Multivariate analysis of competitive seaweed culture. Current.
- Ms. María José Rivero [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB] Plan and methodology for the application of environmental indicators in a framework of Local Environmental Management OECD GAL IV. Water. Current.
- Mr. Santiago Sinclair [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB] Methodology of Impact assessment and determination of Sustainability Indicators of sustainable procurement. Public procurement, Ministry of Treasury.06/2013.
- Ms. Susana Tolosa [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB] Design of methodology to reduction's curve in use water. 03/2013.
- Mr. Matías Faundes [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB] Plan and methodology for the application of environmental indicators in a framework of Local Environmental Management OECD GAL IV. Wastes. 01/2013.
- Mr. Felipe Pacheco [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB] Plan and methodology for the application of environmental indicators in a framework of Local Environmental Management OECD GAL IV. Energy. 01/2013.
- Ms. Jessica Arancibia [Lic. in Industrial Engineering, Universidad Andrés Bello, UNAB] Determination of a Sustainability index based on social indicators. 09/2012.
- Mr. Rodrigo Becerra [Lic. in Industrial Engineering, Universidad Andrés Bello, UNAB] Greenhouse Gas Emissions Inventory by GHG protocol: Municipality of Santiago. 09/2012.
- Mr. Nicolás Velasquez [Lic. in Biological Science, Universidad Andrés Bello, UNAB] Conceptual model of interaction of human factors and impacts in the Biodiversity Management Area Quintay Benthic Resource Extraction: Indicators of Sustainability. 01/2012.
- Mr. Alberto Bielefeldt [Lic. in Sociology, Universidad Alberto Hurtado, UH] The impact of cultural variables in the generation of topophilia: The case of "San Leon" condominium. Environment and Topophilia 8/2010.
- Mr. Felipe Barria [Lic. in Sociology, Universidad Alberto Hurtado, UH] The impact of cultural variables in the generation of topophilia: The case of "San Leon" condominium. Environment and Topophilia 8/2010.
- Ms. Karina Cáceres Labarca [Lic. in Environmental Engineering, Universidad Andrés Bello, UNAB] Operational changes in landfill to bioreactor Landfill: Technical feasibility about biogas's production. 05/2010.

INVITED TALKS AND LECTURES

GUEST LECTURER

- 06/2013 "Mitigation" 4th Module, The World Business Council for Sustainable Development WBCSD's Business Ecosystems Training (BET) course, Santiago, Chile.
- 03/2012 "A new way to public policies assessment to achieve to developing", Diploma and Workshop in Public Affairs, School of Economics, Universidad de Chile.
- 09/2011 "Sustainability: A Common problem", MBA International Program, UNAB. Chile.
- 09/2011 "LCA, Sustainability and Supply Chain", Wine Company Concha y Toro, Chile.
- 08/2011 "Sex, Lie and Design", Capsules of knowledge, UNAB, Chile
- 07/2011 "Systemic thinking and Sustainability", Master's program in Corporative Social Responsibility, UNAB.
- 06/2011 "Sustainability Business", Master in Business Management, UAI, Chile.
- 11/2010 "Sustainability, Innovation, Leadership and Engineering: Green or Blue Challenges?", MBA Program, Universidad de ICESI, Colombia.

11/2010 "Sustainable Bioremediation, Industrial Ecology and Public Policies: New Challenges for Chile". Course "Ecology and Biodiversity BTE-017, Faculty of Sciences, Santo Tomás University.
 07/2009 "Sustainable Development", Master in Business Management, UAI, Chile.
 05/1999 "Pathology & Immunology of the Helicobacter pylori infection". PUC, Medical Research Center, School of Medicine, Department of Pediatrics, Santiago, Chile.

GUEST SPEAKER

11/2014 International Seminar "Monitoring of Hidrological Resources on Forestry Industry: Research, Development and Innovation" Sponsored by Ministry of Agriculture and Forestry Institute
 12/2013 Discussant of Seminar "Seminar "Resources and tools for management and decision-making"" CEPAL (www.cepal.org) and Ministry of Environment
 10/2013 Discussant of Seminar "Building Future with Energy Efficiency" by Ph.D in Energy & Resources, Rafael Friedmann, UDD, Chile
 09/2013 "Sustainability Management" Workshop. Chile Australia Chamber of Commerce.
 06/2013 "Energy and Sustainability" 1st Seminar in Sustainable Building - Bio Bio, Concepción, Chile
 05/2013 "Current sceneries of environmental policies in Latin America post-Kyoto" Global Compact Network Chile.
 03/2013 "Energy Sceneries and Sustainability" Seminarium Intl. Executive Education, Santiago, Chile.
 03/2012 "Informative Meeting of Rio+20, United Nations Conference on Sustainable Development", Ministry of Foreign Relations, Government of Chile and Global Compact Network Chile.
 10/2012 University of Wisconsin-Green Bay Dinner Lecture Series: "The Andean Experience". <http://www.uwgb.edu/outreach/andes/>
 03/2012 "National Meeting of Natural Resources, Agriculture and Livestock Service", Agriculture and Livestock Service, Natural Resource Protection Division, Ministry of Agriculture, Government of Chile, Chile.
 11/2011 Workshop "Environmental Local Management and Territorial Development", Roundtable Housing and Habitat 2011, National Service Program, Alleviation of Poverty Foundation, Chile.
 07/2011 "What about Sustainability?", Wine Company, Montes Wine, Chile
 11/2010 "Sustainability, Innovation, Leadership and Engineering: Green or Blue Challenges?", ECO-Communications, III International Seminar of Marketing and Communication: The new Environment and Business. Hosted and Sponsored by UNAB and PROCHILE, Government of Chile, Chile.
 06/2011 "Global Change, Sustainability and Engineering", Workshop, "Waste with high value added; School of Design, Universidad Andrés Bello, Viña del Mar. June 25.
 10/2010 "Sustainability, Innovation, Leadership and Engineering: Green or Blue Challenges?", XIX University Meeting of Industrial Engineering, Universidad de ICESI, Colombia.
 08/2010 "Trends on Sustainability, Innovation and Environmental Entrepreneurship" Annual Conference on Entrepreneurship and Environmental Innovations. UNAB and Ministry of Environment, Government of Chile.
 08/2010 "Global Change and Eco-tourism" "3th National Forum on Tourism" and the "4th Congress of the Society of Researchers in Tourism of Chile." Hosted and Sponsored by UNAB, Chile.

LIST OF PEER REVIEWED PUBLICATIONS

BOOKS

1. Ecología Industrial y Minería: El Uso de Biosólidos en Minería para una Gestión Sustentable. Lorenzo Reyes-Bozo y Alex Godoy-Faúndez. Editorial Académica Española. ISBN: 978-3-659-03054-3.

BOOK CHAPTERS

1. Innovación Social. Una Herramienta para mejorar la calidad de vida de las personas. Chapter: Equilibrio Medioambiental y Social: Caso Emiliana. Loraine Cisternas y Alex Godoy. Instiuto de Innovación Social. Fundación Miguel Kast – Universidad del Desarrollo. Pp 71-83
2. Chile: Environmental, Political and Social Issues. Chapter: Environmental Outcomes: Linking social and economic issues. Godoy-Faúndez, A., Hernando, A., Correa, C. and Reyes-Bozo, L. www.novapublishers.com, binding: Hardcover, Pub. Date: 2012 - 3st Quarter, Status: Published. Pp: 113-146. ISBN: 978-1-62257-192-5
3. El Chile que se viene Ideas, miradas, perspectivas y sueños para el 2030 (Chile: ideas, visions, perspectives and dreams for 2030). Chapter: Una nueva forma de evaluar políticas, a la altura de lo que queremos ser. Godoy-Faúndez, A. Editors: Ricardo Lagos Escobar, former President of Chile 2000-2004 and Oscar Landerretche, Binding: Hardcover, Catalonia - Fundación Democracia y Desarrollo Publishers. Date: December 2011. Status: Published. ISBN: 9770363241068
4. Bioremediation: Biotechnology, Engineering and Environmental Management. Chapter N°3: Sustainable bioremediation, industrial ecology and public policies: New Challenges for Chile. Godoy-Faúndez, A.,

Reyez-Bozo, L., Montecinos-Bustamante, W. and Quiroz-Valenzuela, S. www.novapublishers.com, binding: Hardcover, Pub. Date: 2011 - 1st Quarter, Status: Published. ISBN: 978-1-61122-730-7

5. Leading-Edge Environmental Biodegradation Research. Chapter N°3: Bioremediation of diesel fuel-contaminated soils in the Atacama Desert, Chile. Godoy-Faúndez, A., Antizar-Ladislao, B., Franke-Whittle, I., Turrión-Gómez, J.L. and Perez-Roepke, L, www.novapublishers.com, binding: Hardcover, Pub. Date: 2008 - 1st Quarter, ISBN: 1-60021-903-9, Status: Published.

ISI PAPERS

1. Uncertainty in a monthly water balance model using the generalized likelihood uncertainty estimation methodology. Rivera-Salazar, Diego; Rivas, Yessica & Godoy-Faundez, Alex. (Accepted to Journal of Earth System Science 2014)
2. Life cycle assessment of macro-algae (seaweed) cultivation and processing for biofuel production. Douglas Aitken, Cristian Bulboa, Alex Godoy-Faundez, Juan L. Turrión-Gomez, Blanca Antizar-Ladislao. Journal of Cleaner Production, Volume 75, 15 July 2014, Pages 45-56.
3. Greening Chilean mining processes through industrial ecology strategies. Lorenzo Reyes-Bozo; Alex Godoy-Faúndez; Pablo Higuera; Ronaldo Herrera-Urbina; José Luis Salazar; Eduardo Vyhmeister; Héctor Valdés-González; Blanca Antizar-Ladislao (In Press, Corrected Proof, Available online 12 April 2014)
4. Assessment of the flotability of chalcopyrite, molybdenite and pyrite using biosolids and their main components as collectors, for greening the froth flotation of copper sulphide ores. Lorenzo Reyes-Bozo, Pablo Higuera; Alex Godoy-Faúndez; Francisco Sobarzo; César Sáez-Navarrete; Jorge Vásquez-Bestagno; Ronaldo Herrera-Urbina. Minerals Engineering, Volume 64, 1 October 2014, Pages 38-43
5. Rougher flotation of copper sulphide ore using biosolids and humic acids. Lorenzo Reyes-Bozo; Ronaldo Herrera-Urbina, Dr; César Sáez-Navarrete, Dr; Alfonso F Otero, Dr; Alex Godoy-Faúndez, Dr; Rosanna Ginocchio. Minerals Engineering 24 (2011) 1603–1608.
6. Role of biosolids on hydrophobic properties of sulfide ores. Lorenzo Reyes-Bozo; Ronaldo Herrera-Urbina; Mauricio Escudey; Alex Godoy-Faúndez; César Sáez-Navarrete; Miguel Herrera; Rosanna Ginocchio. International Journal of Mineral Processing. Volume 100, Issues 3-4, 14 September 2011, Pages 124-129.
7. Uso de Biosólidos como Reactivo Espumante en Procesos de Flotación: Caracterización Física y Química. Lorenzo Reyes-Bozo, Alex Godoy-Faúndez, César Sáez, Miguel Herrera and Rosanna Ginocchio. DYNA, 2011, Nro. 167, pp. 66-73.
8. Bioremediation of contaminated mixtures of desert mining soil and sawdust with fuel oils by aerated in-vessel composting in the Atacama Region (Chile). Godoy-Faúndez Alex; Antizar-Ladislao Blanca; Reyes-Bozo L., Camaño Andrés and Saéz-Navarrete Cesar. Journal of Hazardous Materials. 2008 Vol 151/2-3 pp 649-657.
9. Phenomenological modelling of bioremediation systems for hydrocarbon-contaminated Chilean desert soils. Saez-Navarrete C.; Reyes-Bozo L.; Godoy-Faundez A. International Biodeterioration & Biodegradation. 2008 Volume: 62 Issue: 1 Pages: 11
10. An exploratory study of peat and sawdust as enhancers in the biodegradation of n-dodecane. Sáez-Navarrete C.; Gelmi A. Claudio; Reyes-Bozo Lorenzo y Godoy-Faúndez A.. Biodegradation. 2008. Vol 19 pp 527-534.
11. Relationship between Helicobacter pylori virulence factors and regulatory cytokines as predictors of clinical outcome. Serrano C, Díaz MI, Valdivia A, Godoy A, Peña A, Rollan A, Kirberg A, Hebel E, Fierro J, Klapp G, Venegas A, Harris P. Microbes and Infection. 2007; 9: 428-434
12. CagA Antibodies as a Marker of Virulence in Chilean Patients with Helicobacter pylori Infection. Paul R. Harris, A. Godoy, S. Arenillas, F. Riera, D. García, H. Einisman, A. Peña, A. Rollán, I. Duarte, E. Guiraldes, G. Perez-Perez. J. Pediatr. Gastroenterol. and Nutr. 2003; 37(5):596-602.
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2. Sustainability Assessment of Water Policy: Methodology to prioritize actions on a National Irrigation Strategy. Alex Godoy-Faúndez, Lorenzo Reyes-Bozo & Diego Rivera
3. Are water rights right? A graph theory approach for water rights networks (Diego Rivera, F De la Hoz y A Godoy)
4. Mining Court resolutions for mapping water conflicts (Diego Rivera, Mario Lillo, Alex Godoy)

ONGOING RESEARCH PAPERS

1. Unseen metabolic plasticity related to biodegradation of hydrocarbon of detected in autochthonous microbial communities at Atacama Desert in bioremediation experiments. Alex Godoy-Faúndez, Lorenzo Reyes-Bozo, Alma E. Rodríguez-Estrada, and Blanca Antizar-Ladislao. (Ongoing research projects).
2. Carbon footprint in public e-procurement: A methodology for the measurement of carbon footprint in the public procurement system. Santiago Sinclair-Lecaros, Guillermo Burr, Claudio Loyola, Douglas Aitken, Blanca Antizar and Alex Godoy-Faúndez. (Ongoing research projects).
3. Methodology and Indicators for Measuring the Sustainability of e-Procurement. Santiago Sinclair-Lecaros, Guillermo Burr, Claudio Loyola, Douglas Aitken, Blanca Antizar and Alex Godoy-Faúndez (Ongoing research projects).
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5. Benchmark among abatement cost curve for global Wine industry. Sebastián Elías, Douglas Aitken, Blanca Antizar Ladislao, Lorenzo Reyes-Bozo and Alex Godoy-Faúndez. (Ongoing research projects)
6. Ecosystem innovation of Bioenergy in Chile: Seaweed as a solution for water treatment, reduction of greenhouse gases and production of bio-fuels. Douglas Aitken, Cristian Bulboa, Blanca Antizar-Ladislao and Alex Godoy-Faúndez (Ongoing research projects).
7. Multivariate analysis of competitive seaweed culture. Cristobal Vilches, Alex Godoy-Faúndez, Cristián Bulboa (Ongoing research projects).
8. Waste to Energy: Environmental indicators and conceptual model in a framework of Local Environmental Management. Felipe Pacheco, Matías Faúndez, Lorenzo Reyes and Alex Godoy-Faúndez (Ongoing research projects).
9. Sustainability Science and Environmental Education in Engineering Higher Education: A model for Chile. A. Godoy-Faúndez, L. Reyes-Bozo and M. F. Budinich. (Ongoing research projects).
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11. Public policies in transitional economies for a effective Industrial ecology. Chilean Opportunities. Godoy-Faúndez, Alex, Reyes-Bozo, Lorenzo; and Antizar-Ladislao Blanca (Ongoing research projects)
12. Perceptions, knowledge and Green behavior about Environment and Climate Change in Latinamerica. Godoy-Faúndez, Alex; Reyes-Bozo, Lorenzo; and Antizar-Ladislao Blanca (Ongoing research projects)
13. Conceptual model for technological transfer under a framework of local environmental governance in Chile. Case of Recycling Industry. Godoy-Faúndez, Alex & Reyes-Bozo, Lorenzo.

1. Sustainability Assessment of Public Policy: Methodology to prioritize actions on Water Policy. Alex Godoy-Faúndez, Douglas Aitken, Lorenzo Reyes-Bozo & Diego Rivera. XVth World Water Congress, International Water Resources Association will be held from the 25th to 29th May 2015 at the Edinburgh International Conference Centre (EICC), Edinburgh in cooperation with the Scottish Government.
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7. Sustentabilidad y Gobernanza, Track: Sustentabilidad como pilar de una sociedad democrática: Visiones desde el Cono Sur para siglo XXI. into the Track: Culture, Power and Political Subjectivities for the Latin American Studies Association (LASA). Congress taking place May 21 -24 in Chicago, IL. Chair
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