

**Alex Godoy-Faúndez, Dr.**  
Honorary Doctor of Laws Degree from UW-Green Bay, US  
Associate Professor  
Director, Sustainability Research Centre & Strategic Resource Management  
Academic Director, Master's program in Sustainability Management

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My research explores the complex and evolving coupled human-ecosystems governance to deliver practical and straightforward solutions to current sustainability problems like water scarcity and food, waste management, energy, and environmental pollution. My main goal is to develop analytical frameworks for understanding the causes and effects of sustainable national development through a better understanding and integration of local systems. Natural resources, climate characterize these, infrastructure needs engineering, and social and political factors that influence decision-making at the public policy level, linking science, technology, society, and education. Through qualitative and quantitative methods, I attempt to understand if and how various governance techniques, such as regulations and planning processes, can be led to the effective adaptation to changing social and ecological circumstances. My current work examines the governance of environmental challenges associated with technological changes in ecosystem services use and management. My field of research is Sustainability Science.

## ACADEMIC APPOINTMENTS

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

**Undergraduate Courses:** IEL 56-Engineering and Sustainability, IEL 564-Sustainability Oriented Innovation; IEL 430-Thermodynamics. IEL 562 Industrial Operations.

**Postgraduate Courses:** MAGS 462 Engineering, Society and Sustainability; MSS 101 The Economy of Sustainability; PDCS: Social-Ecological Systems

**Director**, Sustainability Research Centre & Strategic Resource Management; (CiSGER), School of Engineering, UDD.

Faculty, [Doctoral Program](#) in Social Complexity Sciences, [Research Center for Social Complexity](#), School of Government, UDD.

**Principal Investigator**, [iSustainabilityLab](#),

[Mentor for the HBA Sustainability Certificate](#), Center for Building Sustainable Living, Ivey Business School.

**Research Associate**, FONDAPE Centro de Recursos Hídricos para la Agricultura y Minería

**Lecturer**, Bioremediation of Soils, Master's program in Environment, Waste Treatment Area, Universidad de Santiago Chile

**Research Associate**, [Earth Engineering Center at The Earth Institute](#), Columbia University

**Research Associate**, Postgraduate Program in Sustainable Development and Social Inequities in Andean Region, TransAndean Network in Sustainability - [trAndes Program](#), Pontificia Universidad Católica del Perú - Freie Universität Berlin

## ADMINISTRATIVE APPOINTMENTS

**Director**, [Master's program in Sustainability Management](#), School of Engineering, UDD.

## PAST POSITIONS

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

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

**Assistant Professor** (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.

- **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.

**Adjunct Professor**,

- (2020). Department of Chemical Engineering, Universidad de Santiago de Chile (USACH). Postgraduate courses: "Bioremediation of Soils" and "Climate Change Modeling"
- (2008). School of Engineering and Sciences, Universidad Adolfo Ibáñez, (UAI), Santiago, Chile. Courses: "Science and Technology: History and Environmental Sciences" and "Decontamination Processes".
- (2007) School of Engineering, PUC, Course: "Design Systems of Bioremediation of Soils".
- (2003 – 2006) Department of Biological Sciences, UNAB, Chile. Courses: "Biostatistics" and "Principles of Management".

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

## **EDUCATION**

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- Doctor in Engineering Sciences, Chemical Engineering and Bioprocesses Area. School of Engineering, Pontificia Universidad Católica de Chile (PUC).
- Master in Engineering Sciences, in Chemical and Bioprocesses Engineering. School of Engineering, Chemical and Bioprocess Department, PUC.
- Professional Qualification as Biologist specializing in Bioprocesses. Faculty of Biological Sciences, PUC.
- Licentiate in Biological Sciences. Faculty of Biological Sciences, PUC.

## **TRAINING**

- 2018. Skills and Strategies for Community Engagement. The Engineering Exchange Program. University College London. March 5<sup>th</sup> – 8<sup>th</sup>. London Sustainability Exchange.
- 2008. Diploma in Human Capital Management. eClass program, Universidad Adolfo Ibañez (UAI)
- 2008 Strategic Leadership. MBA, UAI – Chile
- 2007 Survey Analysis with SPSS. SPSS Inc. Training and Education Services- Chile
- 2006 e-Blended and e- Learning training. Educative Technologies. UNAB
- 2001 Patents, Model’s Utility and Industrial Design. Department of Industrial Property, Ministry of Economy, Foment and re-construction. Government of Chile.
- 2000. Major in Organization and Human Resources Management. School of Management, Faculty of Economics and Management Science, PUC.
- 2000. New Companies (2000) and Strategic Management of Enterprises. 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.

## **INTERNATIONAL APPOINTMENTS**

- (Current) Lead Author Chapter. Insight H: Climate change will severely exacerbate the water crisis. 10 New Insights in Climate Science 2020. Future Earth & The Earth League, Stockholm.
- (Current) Member of the ISO / TC 323 committee of the standard in preparation ISO / WD 59004 Circular economy - Framework and principles for implementation
- (Current) Lead Author Chapter “Moving from linear to a circular economy: What this means for business? Global Environment Outlook (GEO) for Business; Science Division, United Nation Environment Programme UNEP.
- (Current) Review Editor, [Chapter 13: National and sub-national policies and institutions](#) for the Working Group III contribution to the IPCC Sixth Assessment Report (AR6)

- (Current) Representative and Local Coordinator Andean region, [UN Sustainable Development Solutions Network](#) – [Andes Network](#) sponsored by United Nations
- (Current) Member of Technical Committee [of Chile-US Council. for Science](#), Technology and Innovation. U.S. Mission Chile. U.S. Embassy in Chile
- (Current) Head, [Waste to Energy Research and Technology - Chile](#), WTERT-Chile.
- (Current) Research Fellow of NGO "[Espacio Público](#)" Foundation. Think Tank.

## AWARDS & HONORS

- 2020. Best Presentation Award, Estrategia de Sostenibilidad Corporativa y Adaptación al Cambio Climático. Carmen Gloria Ide & Alex Godoy-Faúndez. Encuentro Nacional de Escuelas y Facultades de Administración de Chile, 4-6 de Noviembre 2020. Virtual International Conference, <https://www.enefa2020.com>
- **2019 Honorary Doctor of Laws Degree from UW-Green Bay for his distinguished service to learning in sustainability, the state and the common good of society.**
- Current Alumnus of [Global Young Academy](#) . Our activities focus on science and policy, education and outreach, open science, and the research environment.
- Current Member of [Future Earth](#). Future Earth was officially announced in June 2012 at the UN Conference on Sustainable Development (Rio+20), to be created as a global initiative to strengthen the interface between policy and science.
- 2020. Academic Excellence. School of Engineering, Universidad del Desarrollo
- 2017. Best Presentation Award, Viability Analysis of a Centralized Hydrogen Generation Plant for Use in Oil Refining Industry. C. Fúnez Guerra, B. Nieto Calderón, M. Jaén Caparrós, L. Reyes-Bozo, A. Godoy-Faúndez and E. Vyhmeister. The ICHEFCT 2017: 19th International Conference on Hydrogen Energy and Fuel Cells Technology. Amsterdam, The Netherlands. Dec 4 - 5, World Academy of Science, engineering & Technology
- 2017. Visiting Scholar Fellowship at Earth Engineering Center, Earth Institute, Columbia University 2017. Energy's Fellowship program for visiting scholars. National Commission for Scientific and Technological Research, CONICYT in Spanish, Government of Chile.
- 2017 International Visiting Scholar, Departamento de Ingeniería Geológica y Minera, Universidad de Castilla-La Mancha.
- 2016. Academic Excellence. School of Engineering, Universidad del Desarrollo
- 2014. Best Paper Award in The Seventh International Conference, on Environmental Science and Technology, sponsored by American Academy of Sciences. June 9 -13, 2014, Crowne Plaza, Houston, Texas, USA, Titled Use of Biosolids wastes as Froth Flotation Reagents for Copper Sulphides Concentration.
- 2012. Scholar in Residence, University of Wisconsin-Green Bay and St. Norbert College. WI, US August-Nov
- 2011. International Visiting Scholar, The International Visiting Scholars Program University of Wisconsin-Green Bay and St. Norbert College. WI, US April 3-23, 2011.
- 2010 IBM Faculty Innovation Award, 2010 Smarter Cities Skills Innovation Award Program. Course: Smarter Cities: Environmental Decision Making.
- 2008 Award for Young Researchers. Fee Remission in 4th European Bioremediation Conference, Technical University of Crete, September 3th to 6th, 2008, Chania, Crete, Greece.
- 2008 Awarded in the Innovation Challenge Tournament. Week of innovation sponsorship by Chilean Innovation Forum, UAI and Endeavor.
- 2007 Awarded in Innovation Challenge for Graduate Student, 2007, Faculty of Engineering, PUC
- 2006 Conference Poster Award in The Second International Conference on Environmental Science and Technology sponsored by American Academy of Science. August 19-22, Houston, Texas, US.
- Selected among "Chile's 100 Young Leaders 2006". 2006. Center of Leadership, UAI [www.redlideres.cl](http://www.redlideres.cl).
- 2006 Doctoral Student Fellowship CONICYT
- 1995-1996 MINEDUC Scholarship, Ministry of Education, Government of Chile

## LIST OF PEER REVIEWED PUBLICATIONS

### EDITOR

1. [Andean Hydrology](#). Rivera, Godoy-Faúndez & Lillo-Saavedra January 30, 2018 Forthcoming Science Publishers and by CRC Press. 265 Pages ISBN 9781498788403

### BOOKS

2. 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. 2012

### BOOK CHAPTER

3. Godoy-Faúndez A., Rivera D., Aitken D., Herrera M., El Youssfi L. (2021) Circular Economy in a Water-Energy-Food Security Nexus Associate to an SDGs Framework: Understanding Complexities. In: Liu L., Ramakrishna S. (eds) An Introduction to Circular Economy. Springer, Singapore. [https://doi.org/10.1007/978-981-15-8510-4\\_12](https://doi.org/10.1007/978-981-15-8510-4_12)
4. Legal Perspectives on Bridging Science and Policy. Chapter 3. Understanding water disputes in Chile with text and data mining tools. Mauricio Herrera, Cristian Candia, Diego Rivera, Douglas Aitken, Daniel Briebe, Camila Boettiger, Guillermo Donoso and Alex Godoy-Faúndez. 1st Edition. Edited by Mara Tignino, Raya Marina Stephan, Renée Martin-Nagle, Owen McIntyre. Routledge Special Issues on Water Policy and Governance 2020 ISBN 978-0-367-40685-1
5. Desafíos del Agua para la región Latinoamericana. Chapter 6. Sistema Hídrico como Sistema Complejo; Alex Godoy-Faúndez. Ed. Fundación Chile. ISBN: 978-956-8200-38-1
6. Andean Hydrology. Chapter 2: Socio-environmental Issues Related to Mineral Exploitation in the Andes. Douglas Aitken, Alex Godoy-Faundez, Oscar Jaime Restrepo-Baena, Diego Rivera and Neil McIntyre, Science Publishers and CRC Press. 2017.
7. Environmental Microbial Biotechnology. Chapter 8 Environmental Microbial Biotechnology inside mining operations from an engineering viewpoint based on LCA. Alex Godoy-Faúndez, Douglas Aitken, Lorenzo Reyes-Bozo and Diego Rivera. "Soil Biology" Series, Volume 45. Editors: Sukla, L.B., Pradhan, N., Panda, S., Mishra, B.K. (Eds.). Springer International Publishing. DOI: 10.1007/978-3-319-19018-1, Hardcover ISBN 978-3-319-19017-4
8. 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. Instituto de Innovación Social. Fundación Miguel Kast – Universidad del Desarrollo. Pp 71-83
9. Chile: Environmental, Political and Social Issues Chapter 5. Environmental Outcomes: Linking social and economic issues. Godoy-Faúndez, A., Hernando, A., Correa, C. and Reyes-Bozo, L. Book [www.novapublishers.com](http://www.novapublishers.com), binding: Hardcover, Pub. Date: 2012 - 3rd Quarter, Status: Published. Pp: 113-146. ISBN: 978-1-62257-192-5
10. 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
11. 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](http://www.novapublishers.com), binding: Hardcover, Pub. Date: 2011 - 1st Quarter, Status: Published. ISBN: 978-1-61122-730-7
12. 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](http://www.novapublishers.com), binding: Hardcover, Pub. Date: 2008 - 1st Quarter, ISBN: 1-60021-903-9, Status: Published.

#### PEER REVIEWED ARTICLES

13. 10 New Climate Insights - a Horizon Scan. Erik Phill et al. Global Sustainability Journal (Submitted)
14. Simulation of Water-Use Efficiency of Crops under Different Irrigation Strategies. Kuschel-Otárola, M.; Rivera, D.; Holzapfel, E.; Schütze, N.; Neumann, P.; Godoy-Faúndez, A. Water 2020, 12, 2930. <https://doi.org/10.3390/w12102930>
15. Changes on the length and frequency of dry spells during the mega-drought in Chile: Is the current water resource infrastructure prepared for a warmer-drier climate? Latoja, Daniela; Montecinos, Aldo; Lillo-Saavedra, Mario; Godoy-Faundez, Alex; Holzapfel, Eduardo; Lagos, Octavio; Jara, Jorge; Rivera, Diego. (Submitted to Environmental Research Letters)
16. Preserve Global South's research capacity -Daniel Reidpath, Pascale Allotey and 166 signatories. 15 May 2020: Vol. 368, Issue 6492, pp. 725 DOI: 10.1126/science.abc2677 <https://science.sciencemag.org/content/368/6492/725>
17. Estimation of yield response factor for each growth stage under local conditions using AquaCrop-O. Kuschel-Otárola, M.; Schütze, N.; Holzapfel, E.; Godoy-Faúndez, A.; Mialyk, O.; Rivera, D. Water 2020, 12, 1080. <https://doi.org/10.3390/w12041080>
18. The role of climate change in convergence of residential water consumption across Chilean localities. Acuña, G.I., Echeverría, C., Godoy, A. Environmental Economics and Policy Studies (2020), 22, 89–108. <https://doi.org/10.1007/s10018-019-00249-3>



19. Use of humic substances in froth flotation processes. Lorenzo Reyes-Bozo, Pablo Higuera, Carlos Fúnez Guerra, Alex Godoy-Faúndez, Eduardo Vyhmeister, Héctor Valdés-González, José Luis Salazar, Ronaldo Herrera-Urbina. *Journal of Environmental Management*, Volume 252, 2019, 109699. <https://doi.org/10.1016/j.jenvman.2019.109699>
20. Validation of cryogenic vacuum extraction of pore water from volcanic soils for isotopic analysis. Rivera, D.; Gutierrez, K.; Valdivia-Cea, W.; Zambrano-Bigiarini, M.; Godoy-Faúndez, A.; Álvez, A.; Farías, L. *Water* 2019, 11, 2214. <https://doi.org/10.3390/w11112214>
21. Viability analysis of underground mining machinery using green hydrogen as a fuel. Carlos Funez Guerra; Lorenzo Reyes-Bozo, PhD; Eduardo Vyhmeister, PhD; María Jaén Caparrós, Bachelor; Jose Luis Salazar, PhD; Alex Godoy-Faúndez, PhD; Carmen Clemente-Jul, PhD; Doroteo Verastegui Rayo, PhD. *International Journal of Hydrogen Energy*. Volume 45, Issue 8, 14 February 2020, Pages 5112-5121 <https://doi.org/10.1016/j.ijhydene.2019.07.250>
22. Water Policy in Chile. *Global Issues in Water Policy*, Volume 21. Alex Godoy-Faúndez. *Water Economics and Policy* Vol. 05, No. 01, 1880007 (2019) Book Review. <https://doi.org/10.1142/S2382624X18800073>
23. Multiperiod optimization of irrigated crops under different conditions of water availability. Kuschel-Otárola, M.; Rivera, D.; Holzapfel, E.; Palma, C.D.; Godoy-Faúndez. *Water* 2018, 10, 1434; <https://doi.org/10.3390/w10101434>
24. Understanding Water Disputes in Chile by Text and Data Mining tools. Mauricio Herrera, Cristian Candia, Diego Rivera, Daniel Briebe, Douglas Aitken, Camila Boettiger & Alex Godoy-Faúndez. *Water International* (2019), 44:3, 302-320, <https://doi.org/10.1080/02508060.2019.1599774>.
25. Viability analysis of centralized hydrogen generation plant for use in mobility sector. Carlos Fúnez Guerra, María Jaén Caparrós, Beatriz Nieto Calderón, Vanesa Sensarrubias Carbonero, Emilio Nieto Gallego, Lorenzo Reyes-Bozo, Alex Godoy-Faúndez, Carmen Clemente-Jul and Eduardo Vyrhmeister. *International Journal of Hydrogen Energy*, Volume 43, Issue 26, 28 June 2018, Pages 11793-11802. <https://doi.org/10.1016/j.ijhydene.2018.04.178>
26. Distributional impacts of climate change on basin communities: an integrated modeling approach. Ponce, R.D., Fernández, F., Stehr, A. et al. *Reg Environ Change* 17, 1811–1821 (2017). <https://doi.org/10.1007/s10113-017-1152-2>
27. A combined photovoltaic and novel renewable energy system: An optimized techno-economic analysis for mining industry applications. Eduardo Vyhmeister; Cristina Aleixendri Muñoz; José Miguel Bermúdez Miquel; Javier Pina Moya; Carlos Fúnez Guerra; Lourdes Rodríguez Mayor; Alex Godoy-Faúndez; Pablo Higuera; Carmen Clemente-Jul; Héctor Valdés-González. *Journal of Cleaner Production* Volume 149, 15 April 2017, Pages 999–1010. <https://doi.org/10.1016/j.jclepro.2017.02.136>
28. Legal disputes as a proxy for regional conflicts over water rights in Chile. Diego Rivera; Alex Godoy; Mario Lillo; Amaya Alvarez; Consuelo Gonzalo-Martin; Ernestina Mensalvas; Roberto Costumero; Angel García-Pedrero. *Journal of Hydrology* 2016, 535, 36-45. <https://doi.org/10.1016/j.jhydrol.2016.01.057>
29. Water Scarcity and the Impact of the Mining and Agricultural Sectors in Chile. Aitken D., Rivera D., Godoy-Faundez A and Holzapfel E. *Sustainability* 2016, 8(2), 128; <https://doi.org/10.3390/su8020128>
30. Adsorption of biosolids and their main components on chalcopirite, molybdenite and pyrite: Zeta potential and FTIR spectroscopy studies. Mauricio Escudey, Dr; Eduardo Vyhmeister, Dr; Pablo Higuera, Dr; Alex Godoy-Faúndez, Dr; José Luis Salazar, Dr; Héctor Valdés-González, Dr; Germán Wolf-Sepúlveda, MSc; Ronaldo Herrera-Urbina, Dr. *Minerals Engineering* (2015) 78, 128–135. <https://doi.org/10.1016/j.mineng.2015.04.021>
31. Exploring soil databases: A Self-Organizing Maps approach. Rivera, Diego; Sandoval, Marcos & Godoy, Alex (2015). *Soil Use and Management* 31: 121-131. <https://doi.org/10.1111/sum.12169>
32. Uncertainty in a Monthly Water Balance Model using the Generalized Likelihood Uncertainty Estimation Methodology. Rivera, D., Rivas, Y. & Godoy, A. *J Earth Syst Sci* 124, 49–59 (2015). <https://doi.org/10.1007/s12040-014-0528-7>
33. Life cycle assessment of macroalgae cultivation and processing for biofuel production. Douglas Aitken, Cristian Bulboa, Alex Godoy-Faundez, Juan L. Turrion-Gomez, Blanca Antizar-Ladislao. *Journal of Cleaner Production*, Volume 75, 15 July 2014, Pages 45-56. <https://doi.org/10.1016/j.jclepro.2014.03.080>
34. 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. *Journal of Cleaner Production*, 84, 1 December 2014, Pages 671–679. <https://doi.org/10.1016/j.jclepro.2014.03.088>
35. Assessment of the flotability of chalcopirite, 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
36. 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.
  37. 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.
  38. 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.
  39. 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. <https://doi.org/10.1016/j.jhazmat.2007.06.038>
  40. 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
  41. 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.
  42. Relationship between *Helicobacter pylori* virulence factors and regulatory cytokines as predictors of clinical outcome. Serrano C, Diaz 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
  43. 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.
  44. Gastric TGF- $\beta$  in children and adults in Chile infected with *Helicobacter pylori*". Harris P, Riera F, Godoy A., Arenillas S, Peña A, Rollan A, Duarte I, Guiraldes E, Smith P.. Annual Meeting of the American Gastroenterology Association, San Francisco, CA, USA, May 19-22, 2002. Supplement to *Gastroenterology*, Abstract, 2002, Vol 122, N°4, w928.
  45. Regulatory Cytokines in Gastric Mucosa of *Helicobacter pylori*-infected children and adults". Paul R. Harris, Helly Einisman, Daniela García, Francisca Riera, Alex Godoy, Silvana Arenillas, Alfredo Peña, Antonio Rollán, Ignacio Duarte, Ernesto Guiraldes. *Gastroenterology* 2003;124 (4), S1:A-12.
  46. Proinflammatory cytokine expression in gastric tissue children from children with *Helicobacter pylori*-associated gastritis. Guiraldes, E; Duarte, I; Peña, A.; Godoy, A.; Espinosa, MN; Brago, R; Larraín, F; Schultz, M; Harris, P. *J. Pediatr. Gastroenterol Nutr.* 2001 Aug; 33(2): 27-32.

#### SCIENTIFIC COMMITTEES - SCIENCE DIPLOMACY & INTERNATIONAL REPORTS

- 2020. Contribute with Think20 -Task Force 7: "G20 Support for SDGs and Development Cooperation". T20 is the research and policy advice network of G20 <https://lnkd.in/epjlmzqz> T20 communiqué will be shared with the G20 leaders during the G20 Summit, Riyadh on November 21-22, 2020
- 2020. ISO/TC323 Circular Economy – Technical Current Member (Chilean member, INN). Working Group, I, Definitions and Principles
- 2019. Scoping Meeting of the IPCC Sixth Assessment Synthesis Report to be held in Singapore on 21-23 October
- 2017-2019 Panel Member of [High Level Panel of Experts](#) Steering Committee on Food Security and Nutrition (HLPE), Committee on World Food Security (CFS), Food and Agriculture Organization (FAO), United Nations.
- 2019 Report: [Agroecological approaches](#) and other innovations for sustainable agriculture and food systems that enhance food security and nutrition. 2019 [High Level Panel of Experts](#) on Food Security and Nutrition (HLPE), Committee on World Food Security (CFS), Food and Agriculture Organization (FAO), United Nations.
- 2019 [Proposal for Science Diplomacy about STIC Chile](#)-United States. Chile-United States Council for Science, Technology and Innovation (STIC) US Embassy.
- 2019 Panel Member of International Water Resources Association ([IWRA](#)) [Water Quality Task Force](#) (TF), Water Quality Project: [Developing a Global Compendium on Water Quality Guidelines](#)
- 2019, "Review process", in [Global Sustainable Development Report 2019: The Future is Now](#) - Science for Achieving Sustainable Development, UN, New York, <https://doi.org/10.18356/bff8125a-en> .
- 2019 Expert Reviewer. [10 New Insights in Climate Science 2019](#). Pihl, E., Martin, M.A., Blome, T., Hebden, S., Jarzebski, M.P., Lambino, R.A., Köhler, C., Canadell, J.G., Ebi, K.L., Edenhofer, O., Gaffney, O., Rockström, J., Roy,

J., Srivastava, L., Payne, D.R., Adler, C., Watts, S., Jacobsson, L., Sonntag, S., [Future Earth & The Earth League](#), Stockholm.

- 2019. Contributor to the development of the [Sustainable Development Goal Platform](#). B Lab and its anchor partner, the United Nations Global Compact-UNGC, with support from Sistema B/Academia B.
- 2018 Report: [Multi-stakeholder partnerships](#) to finance and improve food security and nutrition in the framework of the 2030 Agenda. 2018 [High Level Panel of Experts](#) on Food Security and Nutrition (HLPE), Committee on World Food Security (CFS), Food and Agriculture Organization (FAO), United Nations.
- 2018. [Water-Energy-Food Nexus Knowledge Action Network](#). Research and Engagement Plan. The Development Team of the [Water-Energy-Food Nexus Knowledge-Action Network](#) issued the [Research and Engagement Plan](#) in March 2018 to shape and guide water-energy-food nexus-related activities under the Future Earth umbrella in the coming years.

#### SCIENTIFIC COMMITTEES - SCIENCE DIPLOMACY & NATIONAL REPORTS

- 2020. Roadmap “Scientific research program of excellence for the mountain area of the metropolitan region of Santiago”. Fundación Encuentros del Futuro & Anglo American.
- 2020 Rivera, D.; Pagliero, L.; McIntyre, N.; Aitken, D. & Godoy, A., 2020. Informe Proyecto ARclim: Minería. Centro de Recursos Hídricos para la Agricultura y la Minería de la Universidad del Desarrollo, Centre for Water in the Minerals Industry, Sustainable Minerals Institute de la University of Queensland, Sustainable Minerals Institute- Chile y Centro de Investigación en Sustentabilidad y Gestión Estratégica de Recursos de la Universidad del Desarrollo coordinado por Centro de Ciencia del Clima y la Resiliencia y Centro de Cambio Global UC para el Ministerio del Medio Ambiente a través de La Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ). Chillán, Chile. <https://arclim.meteodata.cl>
- 2019 Aldunce P. y S. Vicuña. Adaptación al cambio climático en Chile: Brechas y recomendaciones. Informe de las mesas Adaptación y Agua. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación <http://www.minciencia.gob.cl/comitecientifico/>
- 2019 Vicuña, S., P. Aldunce, A. Stehr, F. Cid, A. Rivera, K. Alencar, C. Álvarez, J. Barton, J. J. Berger, C. Berroeta, J. P. Boisier, E. Bustos, S. Bustos, T. Correa, S. Cortés, L. Cubillos, F. De la Barrera, F. Donoso, L. Farías, D. Farías, R. Fuster, P. Gese, A. Godoy, L. Guerra, C. Guida, C. Ibarra, M. Jadrijevic, R. Jiliberto, G. Lillo, E. Medel, C. Meruane, F. Meza, M. Montedónico, J. C. Muñoz, L. Muñoz, M. Musalem, A. Navarro, C. Ovalle, R. Palma, C. Pelano, A. Pica, J. Piquer, D. Poblete, R. Ponce, P. Repetto, M. Rojas, A. Rudnick, G. Santis, J. I. Selles, C. Silva, M. Silva, D. Soto, S. Ureta, C. Vargas, G. Vida y P. Winckler. Lineamientos para el desarrollo de planes de adaptación: Aplicación de recursos hídricos. Informe de las mesas Adaptación y Agua. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
- 2019 Stehr A., C. Álvarez, P. Álvarez, J. L. Arumí, C. Baeza, R. Barra, C. A. Berroeta, Y. Castillo, G. Chiang, D. Cotoras, S. A. Crespo, V. Delgado, G. Donoso, A. Dussaillant, F. Ferrando, R. Figueroa, C. Frêne, R. Fuster, A. Godoy, T. Gómez, E. Holzapfel, C. Huneus, M. Jara, C. Little, K. Lizama, M. Musalem, M. Olivares, O. Parra, R. D. Ponce, D. Rivera, I. Rodríguez, A. Sepúlveda, M. Somos, F. Ugalde, R. Urrutia, M. Valenzuela, C. Vargas, X. Vargas, S. Vásquez, I. L. Vera, S. Vicuña, G. Vidal, M. Yevenes. Recursos hídricos en Chile: Impactos y adaptación al cambio climático. Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
- 2019 Muñoz, J. C., J. Barton, D. Frías, A. Godoy, W. Bustamante, S. Cortés, M. Munizaga, C. Rojas y E. Wagemann. Ciudades y cambio climático en Chile: Recomendaciones desde la evidencia científica. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
- 2019 Rojas M., P. Aldunce, L. Farías, H. González, P. Marquet, J. C. Muñoz, R. Palma-Behnke, A. Stehr y S. Vicuña (editores) (2019). Evidencia científica y cambio climático en Chile: Resumen para tomadores de decisiones. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
- Estrategia Nacional de Investigación, Desarrollo e Innovación para la Sostenibilidad de los Recursos Hídricos. Subcomisión Generación de Investigación, Desarrollo e Innovación para la Gestión Integrada de los Recursos Hídricos. [National Council for Innovation for Development](#): CNID <http://www.cnid.cl/portfolio-items/16074/>

#### SCIENTIFIC COMMITTEES- REPRESENTATIVE & DELEGATIONS

- 2019 Member of Chilean Delegation, Government of Chile at Conference of the Parties (COP) and the twenty-five session of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP), Madrid, Spain.

- 2015 Member of Chilean Delegation, Government of Chile at Conference of the Parties (COP) and the eleventh session of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP), 30 November to 11 December 2015, in Paris, France.
- 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.

#### **SCIENTIFIC COMMITTEES - CONFERENCES**

- 2020. International Conference on Climate Nexus Perspectives: Water, Food and Biodiversity (I2CNP 2020). Khenifra, Morocco, June 4, 2020. L. El Youssfi, S.I. Cherkaoui, A. Aghzar, M. Farissi, A. Godoy Faundez, D. Rivera Salazar, O. Seidou, T.O. Sogbanmu, W. Doorsamy and Y. Ouaggajou (Eds.). <https://www.e3s-conferences.org/articles/e3sconf/abs/2020/43/contents/contents.html>
- 2020. 5th International Conference on Operational Excellence in Mining - Minexcellence Agosto 12-14, 2020.
- 2019. 6th International Congress on Environment and Social Responsibility in Mining, Sustainable Mining. September 4-6.
- 2019. International Conference on Sustainable Development (ICSD) September 21-22, 2019 in New York City, USA. "Consumption and Production."
- 2018. Member of the Session Coordination Group. Session 8.b.3 - Adapting institutional policies to collaborative water governance: the path to enable S&T and policy dialogue. 8th WORLD WATER FORUM. Brazil hosts the largest edition of the World Water Forum and meet its goals. Read More. March 23, 2018
- 2017. 4<sup>th</sup> [International Conference on Water Economics, Statistics, and Finance](#). "Water Challenge in XXI Century". The International Water Association, IWA 11-13Sept, Livorno, Italy, 2017.
- 2016. International Conference in City Sciences (ICCS 2016). 16th and 17th June 2016, Santiago.
- 2016. 5th International Conference on Water Management in Mining – Water in Mining. May 18-20, Santiago.
- 2015 3rd International Conference on Social Responsibility in Mining – SRmining. November 4-6, Antofagasta.
- 2015. WaterWeek LatinAmerica, Fundación Chile, Government of Chile. Viña del Mar March 24-27
- 2012 - Scientific Committee, Suizagua Andina, FundaciónChile-Swiss Agency for Development and Cooperation.
- 2010. The Atlanta Conference on Science and Innovation Policy. September 15-17. 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.

#### **SCIENTIFIC COMMITTEES - ADVISORY BOARD & SCIENTIFIC ADVISOR**

- 2020. Technical Advisory Board – Advanced Center for Water Technologies-CAPTA, N° 19CTIGH121349. Innova CORFO
- 2020. Scientific Advisor. Mining Sectoral Roundtable - Long-term Climate Strategy, Ministry of Environment.
- 2020. Scientific Advisor. Waste Sectoral Roundtable - Long-term Climate Strategy, Ministry of Environment.
- 2020. Scientific Advisor. Energy Sectoral Roundtable - Long-term Climate Strategy, Ministry of Energy.
- 2012-(Current) Advisory Board on "Water, Energy and Environment Area" FONDEF program, National Commission for Scientific and Technological Research, Government of Chile:
- 2010-(Current) Reviewer for Innovation Projects – INNOVA program, CORFO, Government of Chile.
- 2013-Academic Advisor, Postgraduate programs, National Accreditation Commission. Ministry of Education, Government of Chile.
- 2012- (Current) Reviewer and Rapporteur. 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.
- 2017. Scientific Advisor on Water Sustainability, Public-Private Partnership - Mining Value Alliance.
- 2017. Scientific Advisor, Long-Term planning to future energy scenarios. Ministry of Energy.
- 2016. Scientific Advisor, R & D + i in Water Resources. Comisión Nacional de Innovación para el Desarrollo.
- 2015-2016. Scientific Advisor, Mitigation Action Plan & Scenarios (MAPS) – Chile. Ministry of Environment, Government of Chile. Co-impact assessment of mitigation of climate change. [www.mapschile.cl](http://www.mapschile.cl)
- 2012-2016 Advisory Board, Department of International Relations National Commission for Scientific and Technological Research, Government of Chile.
- 2012 - Reviewer-The Best Corporate and Sustainability Report Awards. AccionRSE, representative of WBCSD - World Business Council for Sustainable Development.
- 2012 – 2015. Advisory Board, Minister of Environment, Government of Chile



- 2012 International Reviewer for FONARSEC- National Agency for Promotion of Science and Technology; Ministry of Science, Technology and Innovation; Republic of Argentina.
- 2011- 2012. Scientific Advisor, Energy Sustainability Indicators, Ministry of Energy, Government of Chile.
- 2012-2014. Scientific Advisor, Sustainable Procurement, ChileCompra Procurement Bureau, Ministry of Treasury, Government of Chile.
- 2010-2012. Scientific Advisor. Environmental Advisory Council of the Peñalolen Municipality, Santiago, Chile.

## INVITED TALKS AND LECTURES

### GUEST KEYNOTE SPEAKER

- 2020. "Food Water Energy Nexus". [International e-Conference Climate Nexus Perspectives](#): Water, Food and Biodiversity by organized by the Higher School of Technology, Sultane Moulay Slimane University June 4<sup>th</sup>, École Supérieure de Technologie – Khénifra, Morocco.
- 2020. [E-Meeting on COVID19 for Latin America](#). Global Young Academy, May 14<sup>th</sup>.
- 2020. "Sustainability Sciences and Higher Education". [eConference - Interdisciplinarity in \(Higher\) Education and SDGs](#) by organized by the Higher School of Technology, Sultane Moulay Slimane University. April 25<sup>th</sup>, École Supérieure de Technologie – Khénifra, Morocco.
- 2019. APEC Sustainable Plastics Eco System forum. APEC Sustainable Plastics Eco System - Best Practice Sharing On Business Model Innovation and Technologies Implementation. Taichung, Chinese Taipei November 25<sup>th</sup> – 29<sup>th</sup>
- 2019. Global Young Academy International Conference of Young Scientists and Anniversary Annual General Meeting at the German National Academy of Sciences Leopoldina Halle (Saale), Germany, 29 April – 3 May.
- 2019. International Conference on Sustainable Development (ICSD) September 21-22, 2019 in New York City, USA. "Consumption and Production."
- 2019. Webinar: Science Beyond Borders - How to Get Involved in International Science Policy | [The New York Academy of Sciences](#)
- 2019. "Understanding Water Disputes in Chile With Text and Data Mining Tools" [Bridging Science and Policy: Legal Perspectives. IWRA](#). Alex Godoy-Faúndez. International Water Resources Association Webinar N°21. Thursday, May 16<sup>th</sup> from 17:00 to 18:30 Central European Time (11:00 – 12:30 EST).
- 2018. Mobilizing the global science community to support the Sustainable Development Goals (SDGs): with a focus on Latin America and the Caribbean. [Latin America and the Caribbean Open Science Forum - CILAC 2018](#), 22 - 24 October 2018, Panama City.
- 2018. Chilean perspective on waste management and recent actions taken. Sustainable Waste Management: The Forefront of Innovation [EEC/WTERT Bi-Annual Conference](#), October 4<sup>th</sup> & 5<sup>th</sup>, 2018, The City College of New York. Hosted by EEC|CCNY.
- 2018. [International symposium Boundary Spanning: Advances in Socio-Environmental Systems Research](#). June 11-13, Annapolis, Maryland. Co-sponsored by SESYNC, Resources for the Future, and the University of Maryland.
- 2018. III Cumbre Mundial de Regiones sobre Seguridad y Soberanía Alimentaria, Cumbre Hambre Cero. 27-28 april, Azuay Ecuador.
- 2018. [Forum of the Countries of Latin America and the Caribbean on Sustainable Development](#) – Second meeting - Santiago, 18-20 April, Engaging scientists in the LAC region to support the implementation of the SDGs (Side Event). 2018. ECLAC headquarters. Av. Dag Hammarskjöld 3477, Vitacura, Santiago.
- 2018 Roundtable: ¿Cómo gestionamos con éxito la sustentabilidad? Project "Promoción y Desarrollo de la Gestión Sostenible en America Latina" Ministry of Environment – Germany, World Environment Center & Institute for Sustainability. Santiago April 10<sup>th</sup>
- 2017 Second meeting - Santiago, 18-20. Climate change and social inequality: Linking energy, water and food security in the Andean region. October 26-27. Cultural Center of the Pontifical Catholic University of Peru, Lima, Peru. Organized by trAndeS / FU Berlin program, EKLA-KAS, PUCP.
- 2017. Sustainability, History and Chemical Engineering. New Challenges for XXI. XX Congreso Chileno de Ingeniería Química. Universidad Federico Técnica Federico Santa María. Mayo 14-17.
- 2016. Problemática Medioambiental derivada de las emisiones del sector transporte. Workshop. Movilidad Sustentable, Hidrógeno como factor clave de la descarbonización del transporte. UNAB.
- 2016. The 2016 Biannual Meeting of the Global WTERT Council. Waste Management in Chile and Latin America. Columbia University, New York City, October 6 & 7.

- 2015. Global Workshop on Mining Financial Risks related Water and Environmental Risks and their Financial Implications at Columbia University, November 30th. Water---Energy and Food Security Nexus: Water rights competition between energy, mining and agriculture.
- 2014 VII Seminar "Sustainability Challenges into Agriculture Industry" by Chilean Dairy Food Association.
- 2014 International Seminar "Monitoring of Hydrological Resources on Forestry Industry: Research, Development and Innovation" Sponsored by Ministry of Agriculture and Forestry Institute
- 2013 Discussant of Seminar "Seminar "Resources and tools for management and decision-making"" CEPAL
- 2013 Sustainability Management" Workshop. Chile Australia Chamber of Commerce.
- 2013 "Energy and Sustainability" 1st Seminar in Sustainable Building - Bio Bio, Concepción, Chile
- 2013 "Current sceneries of environmental policies in Latam post-Kyoto" Global Compact Network Chile.
- 2013 "Energy Sceneries and Sustainability" Seminarium Intl. Executive Education, Santiago, Chile.
- 2012 "Informative Meeting of Rio+20, United Nations Conference on Sustainable Development", Ministry of Foreign Relations, Government of Chile and Global Compact Network Chile.
- 2012 University of Wisconsin-Green Bay Dinner Lecture Series: "The Andean Experience".
- 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.
- 2011 Workshop "Environmental Local Management and Territorial Development", Roundtable Housing and Habitat 2011, National Service Program, Alleviation of Poverty Foundation, Chile.
- 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.
- 2011 "Global Change, Sustainability and Engineering", Workshop, "Waste with high value added; School of Design, Universidad Andrés Bello, Viña del Mar. June 25.
- 2010 "Sustainability, Innovation, Leadership and Engineering: Green or Blue Challenges?", XIX University Meeting of Industrial Engineering, Universidad de ICESI, Colombia.
- 2010 "Trends on Sustainability, Innovation and Environmental Entrepreneurship" Annual Conference on Entrepreneurship and Environmental Innovations. UNAB and Ministry of Environment, Government of Chile.
- 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.

#### **GUEST LECTURER**

- 2020. International Master Class dLAB program. Climate Reality, Universidad del Desarrollo, October 13th
- 2020. Master Class entitled Climate Reality. 8<sup>th</sup> Air Quality Management and Pollution Control, Universidad de Santiago de Chile, October 9th
- 2018. Master Class entitled Climate Change and Future. 43<sup>rd</sup> Anniversary of School of Sciences, Universidad de Santiago de Chile, November 10th
- 2016. Sustainability and Innovation, May 14th. OpenLab Beauchef. Universidad de Chile.
- 2015. Waste to Energy in Chile, April 16th. Earth Engineering Center, Columbia University.
- 2013-2014 "Mitigation" The World Business Council for Sustainable Development WBCSD's Business Ecosystems Training (BET) course, Santiago, Chile.
- 2012. "A new way to public policies assessment to achieve developing", April 30<sup>th</sup>, Diploma and Workshop in Public Affairs, School of Economics, Universidad de Chile.
- 2011. "Sustainability: A Common problem", August 10<sup>th</sup>, MBA International Program, UNAB. Chile.
- 2011. "Sex, Lie and Design", Capsules of knowledge, UNAB, Chile <https://www.youtube.com/watch?v=abRJ3H7Sg74>
- 2011. "Systemic thinking and Sustainability", Master's program in Corporative Social Responsibility, UNAB.
- 2011. "Sustainability Business", Master in Business Management, UAI, Chile.
- 2010. "Sustainability, Innovation, Leadership and Engineering", MBA Program, Universidad de ICESI, Colombia.
- 2010 "Sustainable Bioremediation, Industrial Ecology and Public Policies: New Challenges for Chile". Course "Ecology and Biodiversity BTE-017, Faculty of Sciences, Santo Tomás University.
- 2009 "Sustainable Development", Master in Business Management, UAI, Chile.
- 1999 "Pathology & Immunology of the Helicobacter pylori infection". PUC, Medical Research Center, School of Medicine, Department of Pediatrics, Santiago, Chile.

#### **MEMBERSHIPS**

- Member of Network for Business Sustainability (NBS) <https://www.nbs.net>

- Member of Business Ethics and Organizational Association <https://www.asociacioneticachile.cl>
- Member of trAndeS – Programa de Posgrado en Desarrollo Sostenible y Desigualdades Sociales en la Región Andina <https://www.programa-trandes.net>
- Member of Waste to Energy Research and Technology Council <http://gwcouncil.org>
- Member of United Nations Sustainable Development Solutions Network <https://www.unsdsn.org>
- Member of National Council for Science and the Environment (NCSE) <https://www.ncseglobal.org>
- Member of Latin American Studies Association. (LASA). <https://lasa.international.pitt.edu/>
- Member of International Water Association (IWRA). [www.iwra.org](http://www.iwra.org)

#### **REFEREE & PEER-REVIEWER**

- 2020 Expert Reviewer for Report on assessing the interlinkages among biodiversity, water, food and health contribution to Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)
- IPBES
- 2019 Expert Reviewer for the for the Internal Draft of the Working Group I (WGI) contribution to the Sixth Assessment Report (AR6) of the IPCC
- 2019 Expert Reviewer for the Internal Draft of the Working Group II (WGII) contribution to the Sixth Assessment Report (AR6) of the IPCC
- 2019 Expert Advisor on Sustainable Waste Management in Robinson Crusoe Island. NatGeo Pristine Seas
- 2019 Expert Reviewer, Second Order Draft (SOD), IPCC Special Report on Climate Change and Land (SRCCL)
- 2019 Expert Reviewer, Second Order Draft (SOD), Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories, IPCC Task Force on National Greenhouse Gas Inventories (TFI)
- 2018 Expert Reviewer, First Order Draft (SOD), IPCC Special Report on Climate Change and Land. (SRCCL)
- 2018 Expert Reviewer, Second Order Draft (SOD), IPCC Special Report on Global Warming of 1.5C (SR15)
- 2018 Expert Reviewer, First Order Draft (FOD), Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. IPCC Task Force on Inventories (TFI)
- Research Councils UK (RCUK) and National Commission for Scientific Research and Technology (CONICYT) to the Newton RCUK-CONICYT Broadening Impact Call 2017 Theme: Energy-Food-Water-Environment Nexus. Research Council UK

**Member of Editorial Board:** *Recycling* (ISSN 2072-4292). Special Issue "Water Recovery Recycling and Resilience". *Recycling* is a journal focusing on resource recycling and waste re-utilization which provides an international online forum for sharing of best practice in waste management, policy, technology, regulations and assessment. [http://www.mdpi.com/journal/recycling/special\\_issues/waste\\_water](http://www.mdpi.com/journal/recycling/special_issues/waste_water)

#### **Associate Editor:**

- The International Journal of Sustainability Policy and Practice, Volume 8, Issue 1;
- The International Journal of Environmental Sustainability, Volume 8, Issue 1;
- Chilean Journal of Agricultural & Animal Sciences
- Frontiers in Environmental Economics and Management

#### **Review Editor:**

- Frontiers in Ecology and Evolution.
- Frontiers in Environmental Science.
- Frontiers in Earth Science.

#### **Peer-Reviewed Journal,**

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|---|---|
| <ul style="list-style-type: none"> <li>• Open Water Journal.</li> <li>• Recycling.</li> <li>• Air, Soli and Water Research.</li> <li>• African Journal of Environmental Science and Technology.</li> <li>• Biodegradation.</li> <li>• Biofuels, Bioproducts &amp; Biorefining.</li> <li>• Chemosphere.</li> <li>• Energy Conversion and Management</li> <li>• Energy Efficiency</li> <li>• Energy, Ecology &amp; Environment</li> <li>• Energy Research &amp; Social Science.</li> <li>• Environmental Engineering and Management Journal.</li> <li>• Fuel</li> </ul> | <ul style="list-style-type: none"> <li>• International Journal of Environmental Sustainability.</li> <li>• Journal of Cleaner Production</li> <li>• Journal of Environmental Management.</li> <li>• Marine Pollution Bulletin.</li> <li>• Mineral Processing and Extractive Metallurgy Review.</li> <li>• Science of the Total Environment.</li> <li>• The International Journal of Environmental, Cultural, Economic and Social Sustainability.</li> <li>• Toxicological &amp; Environmental Chemistry.</li> <li>• Fresenius Environmental Bulletin.</li> <li>• Waste and Biomass Valorization.</li> <li>• Water Environment Research.</li> <li>• Water Science and Technology:</li> </ul> |
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- Water Supply.
- Water Technology & Practice
- Water International.
- Water Economics & Policy
- Future

#### **Peer-Reviewed Books,**

- Expert Reviewer for the Urban Solid Waste Chapter of the Second Urban Climate Change Research Network (UCCRN) Assessment Report on Climate Change and Cities (ARC3-2). Cambridge University Press, 2011,
- eBook Publications Department, Bentham Science Publishers.

#### **AWARDED RESEARCH GRANTS**

- 2021 -2023. Hacia un modelo de tarifa progresiva en el sector sanitario. Análisis y evaluación de alternativas tarifarias para el sector de agua residencial para el gran Santiago. Funds for development and Innovation UDD.
- 2019-2023: Water Research Center for Agriculture and Mining (WARCAM), Water & Society area. FONDAP, CRHIAM/CONICYT/FONDAP15130015 for Research Centers in Priority Areas, National Commission for Scientific and Technological Research (CONICYT in Spanish), Government of Chile.
- 2021-2024. Regional Development Funds. FIC-R2020, Bio- Bio Region. "Bios Network - Design and Sustainable Innovation. School of Design, Universidad del Desarrollo.
- 2019 Towards the Modernization of the State: Analytical Modeling of State Capabilities based on staffing data. Project ID19110198, FONDEF program, National Commission for Scientific and Technological Research, Government of Chile.
- 2018. ¿Cómo mejorar la disponibilidad y equidad en el acceso de agua? Propuestas para mejorar la gobernanza hídrica en territorios andinos con extracción minera a gran escala (Perú - GRADE, CINEP-Colombia, Gino Germani - UBA, CiSGER-UDD). Fundación Ford.
- 2018. Addressing the environmental impacts resulting from the replacement of freshwater with seawater in the Chilean mining industry. Funds for development and Innovation UDD.
- 2017. UCL's Global Engagement Funds. Engineering Exchange UCL-UDD
- 2017. International Study and Training Partnerships (ISAP) - DAAD University of Duisburg-Essen - Universidad del Desarrollo
- 2017, Grants Corner, U.S. Embassy Chile. Project Strengthening associativity between UW-Green Bay (US)-Universidad del Desarrollo (UDD) supporting Green Innovation Conference.
- 2017, 100,000 Strong in the Americas Innovation Fund - Partners of the Americas. Project: "Establishment of a University of Wisconsin-Green Bay (US)-Universidad del Desarrollo (Chile): Environmental Engineering Issues-Water Emphasis."
- 2016: North-South Interdisciplinary Grant 2016. Ethics in environmental decision-making: From individual acts to global outcomes? Global Young Academy. Alex Godoy and Jan-Christoph Heilinger, Coauthor.
- 2015-2017: President's Global Innovation Fund, Columbia University. Advanced holistic waste management and waste to energy technologies in rapidly developing nations: Research and Dissemination thrusts enabled by the knowledge-how of the Earth Engineering Center (EEC) of the Earth Institute.
- 2015-2016: Corporate Sustainability Index Assessment. School of Business and School of Engineering, Funds for development and Innovation UDD.
- 2014-2019: Water Research Center for Agriculture and Mining (WARCAM), Water & Society area. FONDAP, CRHIAM/CONICYT/FONDAP15130015 for Research Centers in Priority Areas, National Commission for Scientific and Technological Research (CONICYT in Spanish), Government of Chile.
- 2014: App development for dental & clinical diagnosis. Funds for development and Innovation UDD.
- 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.
- 2013: New Engineering to 2030. Co-Researcher INNOVA CHILE program, Production Development Corporation, (CORFO in Spanish), Government of Chile.
- 2012-2013: Design of service-learning methodology for Sustainability and Social Responsibility. Funds UNAB.
- 2012-2013: Analysis of bioenergy innovation ecosystem in Chile: Algae as a solution for water treatment, reduction of greenhouse gases and bio-fuel production. Internal Funds UNAB.
- 2012-2013: Using different organic matrices for the concentration of sulfide minerals. Internal Funds UNAB.
- 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.
- 2011-2012: Linking Sustainable Consumption and Life Cycle Assessment. Fundación Chile



- 2010-2013: Angels Investor Network, Platform ProyectaChile, 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 TO PUBLIC SECTOR**

- 2020. Apoyo técnico y metodológico para el Eje 3: Eficiencia y Uso estratégico del recurso hídrico. ATN/OC-15816-CH. Corfo, Ministry of Economy, Government of Chile.
- 2020. Facing the Water Security Challenge: Developing Water Security and Drought Management Plans for LAC Countries. RG-T3476. International Development Bank.
- 2020. ARCLIM. Atlas de riesgo climático de Chile (Climate Risk Atlas – Chile). Ministerio del Medioambiente.
- 2015-2016: "Economic Instruments for pollution Control in the basin of Villarrica Lake" Ministry of Environment, Chile. (ID: 608897 - 89 - LP15)
- 2015: Plan Maestro de Sustentabilidad, Parque Metropolitano. ID: 607277-LE15. Metropolitan Park. Ministry of Housing, Government of Chile.
- 2010-2012 Advisor to 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 Ministry of Treasury, Government of Chile.
- 2013 National Irrigation Commission (CNR). Project: Sustainability Assessment of National Irrigation Policy through application of systems thinking.
- 2011-2012: Determination of Greenhouses Abatement Curve. Principal Investigator. Private Funds, Concha y Toro Wine Company.
- 2006. Consultant to FUNDACIÓN CHILE, Risk Evaluation and Environmental Remediation program.

#### **CONSULTING TO PRIVATE SECTOR**

- 2014. Corporative Carbon Footprint, Marinetti S.A.
- 2014. Consultant, Oxford Analytica Global Analysis & Advisory ([www.oxan.com](http://www.oxan.com)).
- 2013. Real State Agent, Las Salinas. Sustainability Indicators for a Sustainable Neighborhood Project.
- 2011-2012: Greenhouses Abatement Curve. Principal Investigator. Concha y Toro Wine Company.
- 2010-2013 Senior Advisor in Innovation and Business, Angels Investor Network, ProyectaChile,
- 2010-2012 Senior Consultant in Environmental Innovation. Advient, Setting Ideas in Motion. Technological Breakthrough with existing R&D by Scientific Open Innovation, [www.advient.net](http://www.advient.net)
- 2009. Consultant: "Security Energy and Biodiversity: Key Elements for Sustainable Development, and Enhancing the Competitiveness of Chile", National Congress Library, Government of Chile.
- 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. Consultant - Zeltzer, Barberis y Ulloa Associates. Project: "Technology Business Consortium for the development of thermo solar technologies, CORFO.
- 2006. Consultant to RIALTO, Focus: Development of methodologies by industrial wastes, Emissions Factors.
- 2005. Consultant to Bayer Chemical S.A. Focus: Study of infringement of invention patents. Copy of products.
- 2006. Consultant to Minera Escondida Ltda. (BHP-Billiton), Project: Aerobic bioremediation of desert soils and sawdust contained and contaminated with mixtures of hydrocarbon. Design of Bioreactor.

#### **ADVISOR FOR STUDENTS**

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##### **POSTDOCTORAL ADVISOR**

- 2017 Ph.D. Douglas Aitken [Ph.D. in Civil and Environmental Engineering, University of Edinburgh] Project: LCA of Water Consumption and Intensity of the Copper Mining Industry in Chile.

##### **PHD STUDENT**

- 2019. Ms. Ilka Roose. [Doctoral Degree Programme ARUS, University of Duisburg-Essen]. Social Dynamics in Water Conflicts: Towards Social.Political Innovations in Urban Systems using the Example of Water Conflict in Petorca (Chile).
- Current. Diego Tapia. [Doctoral Program in Social Complexity Sciences]. Health risk and Air Pollution.

##### **MASTER'S STUDENT**

- 2020. Ms. Elizabeth Tapia Millegas. [Master in Sustainability Management, UDD]. Instruments to encourage home recycling as support's mechanism to EPR.

- 2020. Mr. Gilberto Ortiz. [Master in Sustainability Management, UDD]. Stakeholders and Sustainability Reports: An Evaluative Approach.
- 2018. Ms. Carmen Gloria Ide. [Master in Sustainability Management, UDD]. Corporate Social Responsibility and Corporate Sustainability.
- 2017. Ms. Gabriela Cabrera. [Master in Sustainability Management, UDD]. A methodology to assess water consumption into Wine Industry.
- 2017. Ms. Haydée Huenunguir. [Master's in engineering science, UDD]. Multi-Objective Optimization of waiting times and GHG in Emergency rooms into Public Hospitals in Chile.
- 2017. Ms. Fernanda Cabañas. [Master in Earth and Environmental Engineering, Columbia University]. Sustainable Waste Management and Reconsideration of WTE Facility in Santiago of Chile [Master in Earth and Environmental Engineering, Columbia University]. Co-Advisor
- 2016. Ms. Carla Roman [Master in Sustainability Management, UDD]. Strategic plan for sustainability of tourism industry at Isabela Island, Province of Galapagos, Ecuador.
- 2016. Mr. Diego Poblete [Master in Sustainability Management, UDD]. Material Flow Analysis into Food Services System: Emission, Water and Energy Consumption.
- 2016. 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.
- 2016. Mr. José María Perez [Master in Sustainability Management, UDD] LCA in Premium Wines: Water and Energy Consumption.
- Mr. Sebastián Elías [Master's in environmental management, UNAB] Determination of Greenhouse gas abatement cost curves inside wine industry.

#### **UNDERGRADUATE STUDENTS**

- Ms. Macarena Miranda, [Lic. in Industrial Engineering, UDD]. Water Policy and Conflicts.
- Ms. Francisca Silva, [Lic. in Industrial Engineering, UDD]. Climate Change, Crop Yield and Metabolic Diseases.
- Ms. Javiera Amo, [Lic. in Industrial Engineering, UDD]. Environmental Impacts of Food Nutrition.
- Mr. Joshua Loritz. [Science Policy & Spanish Program, Universidad de Wisconsin – Green Bay]. El derecho al agua: ¿Un derecho universal? Las implicancias prácticas de un dilema moral desde el contexto latinoamericano
- Mr. Andrés Iglesias, [Lic. in Industrial Engineering, UDD] Energy Potential by Waste to Energy.
- Ms. Paula Pizarro, [Lic. in Environmental Engineering, UNAB], Energy Potential by Waste to Energy
- Mr. Nicolás Velasquez [Lic. in Environmental Engineering, UNAB] Cheaper and Little devices for monitoring in irrigation process.
- 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. Cristobal Vilches [Lic. in Marine Biology, UNAB] Multivariate analysis of competitive seaweed culture.
- Mr. Santiago Sinclair [Lic. in Environmental Engineering, UNAB] Methodology of Impact assessment and determination of Sustainability Indicators of sustainable procurement. Public procurement, Ministry of Treasury.
- Ms. Susana Tolosa [Lic. in Environmental Engineering, UNAB] Design of methodology to reduction's curve in use water.
- Mr. Matías Faundes [Lic. in Environmental Engineering, UNAB] Plan and methodology for the application of environmental indicators in a framework of Local Environmental Management OECD GAL IV. Wastes.
- Mr. Felipe Pacheco [Lic. in Environmental Engineering, UNAB] Plan and methodology for the application of environmental indicators in a framework of Local Environmental Management OECD GAL IV. Energy.
- Ms. Jessica Arancibia [Lic. in Industrial Engineering, UNAB] Determination of a Sustainability index based on social indicators.
- Mr. Rodrigo Becerra [Lic. in Industrial Engineering, UNAB] Greenhouse Gas Emissions Inventory by GHG protocol: Municipality of Santiago.
- Mr. Nicolás Velasquez [Lic. in Biological Science, UNAB] Conceptual model of interaction of human factors and impacts in the Biodiversity Management Area Quintay Benthic Resource Extraction: Indicators of Sustainability.
- Mr. Alberto Bielefeldt [Lic. in Sociology, Universidad Alberto Hurtado, UAH] The impact of cultural variables in the generation of topophilia: The case of "San Leon" condominium. Environment and Topophilia.
- Mr. Felipe Barria [Lic. in Sociology, UAH] The impact of cultural variables in the generation of topophilia: The case of "San Leon" condominium. Environment and Topophilia

- Ms. Karina Cáceres Labarca [Lic. in Environmental Engineering, UNAB] Operational changes in landfill to bioreactor Landfill: Technical feasibility about biogas's production.

#### **INTERNATIONAL STUDENTS**

- 2018 Ms. Abigail Lowe. B.S. GeoSciences. University of North Carolina
- 2017 Mr. Simon.Hertlein B.S. Physics. München - Ludwig-Maximilians-Universität München. RISE worldwide Alumnus or former DAAD scholarship.
- 2017 Mr. Gabriel Riffin, B.S. Chemical Engineering, Michigan Technological University
- 2017 Ms. Rachal Skyving, Mechanical Engineering Program, University of Idaho – Moscow
- 2016 Ms. Ashley Kampschneider, Bachelor of Science in Chemical Engineering, University of Nebraska-Lincoln
- 2015 Ms. Elle Weber, Professional MSc. in Environmental Assessment at University of Kansas, US
- 2015 Ms. Shelbey Geisen at University Colorado Boulder, US
- 2014 Mr. Drew V. Asten, Mechanical Engineering program, University of Wisconsin – Platteville US
- 2014 Mr. Anthony Proano, Political Science and philosophy major in CLAS at Arizona State University, US

#### **LIST OF PROCEEDINGS, POLICY BRIEF & WORKING PAPERS**

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##### **ONGOING RESEARCH ARTICLES**

1. Crop yield, water use and WUE of optimum irrigation using an LCA-based methodology. Mathias Kuschel-Otarola, Patricio Neumannb, Niels Schutzec, Eduardo, Holzapfela,, Alex Godoy-Faundez, Oleksandr Mialykc, Diego Rivera.
2. CY2: A Toolbox for Probabilistic Assessment of Crop Yield Deficit. Gabriel Candia, Alex Godoy, Roberto Ponce, Felipe Vasquez Lavin, Isabel Erpel.
3. Water governance and climate variability in Central Chile: lessons from the past, challenges for the future. A Montecinos, M Lillo, A Godoy-Faúndez, A Álvez, V Delgado, F Ochoa & D Rivera.
4. A tale of two outcomes: Mega Mining and Transboundary Impacts. Julieta Godfrid, Alex Godoy-Faúndez, Diego Rivera, Lorenzo Reyes-Bozo, Douglas Aitken.
5. A Big Bang of water rights: implications of water rights mutations on water policy. De la Hoz, F., Álvez, A., Delgado, V., Godoy, A., Holzapfel, E., Ochoa, F., Rivera, D.
6. Spatial intensity of legal disputes related to water rights in Chile (2013-2014): market and regulatory issues” to be considered for publication on Water Alternatives. Delgado, V., Álvez, A., Godoy, A., Ochoa, F. & Rivera, D
7. A method to forecast monthly rainfall using Self-organizing maps. Rivera, Diego; Godoy, Alex & Rivas, Yessica.
8. Modeling and Energy-Based Model Predictive Control of High-Pressure Grinding Roll. Eduardo Vyhmeister, Roamn Rodríguez-Maecker; Lorenzo Reyes-Bozo; Carlos Fúnez-Guerra; Héctor Valdéz-González; Alex Godoy-Faúndez; Fernando Cepeda-Vaca.
9. Technical-economic analysis for a green ammonia production plant in Chile. Lorenzo Reyes-Bozo; Carlos Fúnez Guerra; Eduardo Vyhmeister; María Jaén Caparros; Emilio Nieto Gallego; Carmen Clemente-Jul; Alex Godoy-Faúndez.; José Luis Salazar
10. Sustainability Science and Environmental Education in Higher Education: Water resources and Video Games. Alex Godoy-Faúnndez, Lorenzo Reyes-Bozo & Diego Rivera.
11. Sustainability Assessment of Water Policy: Methodology to prioritize actions on a National Irrigation Strategy. Alex Godoy-Faúndez, Lorenzo Reyes-Bozo & Diego Rivera
12. Are water rights? A graph theory approach for water rights networks (Diego Rivera, F De la Hoz y A Godoy)
13. 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. Rodriguez-Estrada, and Blanca Antizar-Ladislao.
14. 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.
15. 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
16. The CO2 abatement cost curve for the Chilean Wine industry. S. Elías, D. Aitken, B. Antizar Ladislao, L. Reyes-Bozo and A. Godoy-Faúndez.
17. Benchmark among abatement cost curve for global Wine industry. S. Elías, D. Aitken, B. Antizar Ladislao, L. Reyes-Bozo and A. Godoy-Faúndez.

18. Ecosystem innovation of Bioenergy in Chile: Seaweed as a solution for water treatment, reduction of greenhouse gases and production of bio-fuels. D. Aitken, C. Bulboa, B. Antizar-Ladislaio and A. Godoy-Faundez
19. Multivariate analysis of competitive seaweed culture. C. Vilches, A. Godoy-Faúndez, C. Bulboa
20. Waste to Energy: Environmental indicators and conceptual model in a framework of Local Environmental Management. Felipe Pacheco, Matías Faúndez, Lorenzo Reyes and A. Godoy-Faúndez
21. Sustainability Science and Environmental Education in Engineering Higher Education: A model for Chile. A. Godoy-Faúndez, L. Reyes-Bozo and M. F. Budinich.
22. Green Technologies: Incentives in development countries to environmental innovation by Public policy. Environmental Leadership Model. A. Godoy-Faúndez, L. Reyes-Bozo and M. F. Budinich.
23. Public policies in transitional economies for a effective Industrial ecology. Chilean Opportunities. Godoy-Faúndez, A., Reyes-Bozo, L.; and Antizar-Ladislaio B.
24. Perceptions, knowledge and Green behavior about Environment and Climate Change in Latinamerica. Godoy-Faúndez, Alex; Reyes-Bozo, Lorenzo; and Antizar-Ladislaio Blanca
25. Conceptual model for technological transfer under a framework of local environmental governance in Chile. Case of Recycling Industry. Godoy-Faúndez, A. & Reyes-Bozo, L.

#### **NON-ISI PAPERS & POLICY BRIEF**

26. Imme, Scholz, Kloke-Lesch, Adolf, Lepenies, Robert, Godoy-Faúndez, Alex, Režek Jambrak, Anet, Kablan, Armand Ketcha Malan, ... Shimpuku, Yoko. (2020, May 9). Dealing with interlinkages – a focused approach for implementing the SDGs and overcoming the COVID-19 crisis. T20, Tas Forces, G20 Support for SDGs and delopment Cooperation. <https://t20saudiArabia.org.sa/en/forces/Pages/G20-Support-for-SDGs-and-Development-Cooperation.aspx> Zenodo. <http://doi.org/10.5281/zenodo.3818223>
27. Aldunce P. y S. Vicuña, 2019. Adaptación al cambio climático en Chile: Brechas y recomendaciones. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación <http://www.minciencia.gob.cl/comitecientifico/>
28. 2019 Vicuña, S., P. Aldunce, A. Stehr, F. Cid, A. Rivera, K. Alencar, C. Álvarez, J. Barton, J. J. Berger, C. Berroeta, J. P. Boisier, E. Bustos, S. Bustos, T. Correa, S. Cortés, L. Cubillos, F. De la Barrera, F. Donoso, L. Farías, D. Farías, R. Fuster, P. Gese, A. Godoy, L. Guerra, C. Guida, C. Ibarra, M. Jadrijevic, R. Jiliberto, G. Lillo, E. Medel, C. Meruane, F. Meza, M. Montedónico, J. C. Muñoz, L. Muñoz, M. Musalem, A. Navarro, C. Ovalle, R. Palma, C. Pelano, A. Pica, J. Piquer, D. Poblete, R. Ponce, P. Repetto, M. Rojas, A. Rudnick, G. Santis, J. I. Selles, C. Silva, M. Silva, D. Soto, S. Ureta, C. Vargas, G. Vida y P. Winckler (2019). Lineamientos para el desarrollo de planes de adaptación: Aplicación de recursos hídricos. Informe de las mesa ADAPTACIÓN. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
29. 2019 Stehr A., C. Álvarez, P. Álvarez, J. L. Arumí, C. Baeza, R. Barra, C. A. Berroeta, Y. Castillo, G. Chiang, D. Cotoras, S. A. Crespo, V. Delgado, G. Donoso, A. Dussailant, F. Ferrando, R. Figueroa, C. Frêne, R. Fuster, A. Godoy, T. Gómez, E. Holzapfel, C. Huneus, M. Jara, C. Little, K. Lizama, M. Musalem, M. Olivares, O. Parra, R. D. Ponce, D. Rivera, I. Rodríguez, A. Sepúlveda, M. Somos, F. Ugalde, R. Urrutia, M. Valenzuela, C. Vargas, X. Vargas, S. Vásquez, I. L. Vera, S. Vicuña, G. Vidal, M. Yevenes. Recursos hídricos en Chile: Impactos y adaptación al cambio climático. Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
30. 2019 Muñoz, J. C., J. Barton, D. Frías, A. Godoy, W. Bustamante, S. Cortés, M. Munizaga, C. Rojas y E. Wagemann (2019) Ciudades y cambio climático en Chile: Recomendaciones desde la evidencia científica. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. <http://www.minciencia.gob.cl/comitecientifico/>
31. 2019 Rojas M., P. Aldunce, L. Farías, H. González, P. Marquet, J. C. Muñoz, R. Palma-Behnke, A. Stehr y S. Vicuña (editores) (2019). Evidencia científica y cambio climático en Chile: Resumen para tomadores de decisiones. Santiago: Comité Científico COP25; Ministerio de Ciencia, Tecnología, Conocimiento e Innovación. [http://www.minciencia.gob.cl/comitecientifico/Water conflicts in Chile - Legal disputes as a proxy \(2015\).](http://www.minciencia.gob.cl/comitecientifico/Water%20conflicts%20in%20Chile%20-%20Legal%20disputes%20as%20a%20proxy%20(2015).)
32. Rivera, Diego; Lillo, Mario; Godoy-Faundez, Alex (2015): figshare. <http://dx.doi.org/10.6084/m9.figshare.1295405>
33. The value on the housing context: Strategies to incorporate green areas in Santiago de Chile. Vargas A., Montecinos W. Godoy-Faúndez A. Chinese Landscape Architecture. 2010 Vol 26/176 pp.13-17
34. Participación de Interleukina-8 en patología gástrica en niños. Harris P, Zylberberg A, Godoy A, Arenillas S, Peña A, Bravo R, Duarte I, Guiraldes E. Gastroenterología Latinoamericana, 2002, Vol.13:19-26.
35. Regulación de la respuesta inmune frente a la infección por Helicobacter pylori. Arenillas S, Godoy A., Einisman H, García D, Harris P. Rev Chil. Pediatr., 73:108-115, 2002.
36. Dolor abdominal, dispepsia y gastritis en pediatría. Rol del Helicobacter pylori”. Paul Harris D., Alex Godoy F. y Ernesto Guiraldes C. Rev.Chil.Pediatr. 72(2); 81-91, 2001.



37. Un análisis inmunológico de la patogenicidad en la infección por *Helicobacter pylori* y sus enfermedades asociadas. Paul Harris D., Alex Godoy F., Ernesto Guiraldes C. *Gastroenterología Latinoamericana*. Marzo 2000, Vol.11: 39-50.

#### WORKING PAPERS

38. Relación entre calidad de aire (interior y exterior) y productividad laboral en Chile (The relationship between air quality (indoor and outdoor) and labor productivity in Chile). Marcelo Mena-Carrasco & Alex Godoy-Faúndez. Presented in the Seminar Climate Change and Labour in Chile. OIT, International Labour Organization. Santiago de Chile, August 12th, 2010

#### PROCEEDINGS: ENGINEERING, ENVIRONMENTAL POLICY & ADMINISTRATION

1. Sustainability and Business Performance in Chilean Companies. Felipe Abud & Alex Godoy-Faúndez. 7<sup>th</sup> GSOM Emerging Markets Conference 2020; 11-21, November 2020, Graduate School of Management of St. Petersburg University, Rusia.
2. Estrategia de Sostenibilidad Corporativa y Adaptación al Cambio Climático. Carmen Gloria Ide & Alex Godoy-Faúndez. Encuentro Nacional de Escuelas y Facultades de Administración de Chile, 4-6 de Noviembre 2020. Virtual International Conference, <https://www.enefa2020.com>
3. *Los claroscuros de la ley de aguas grises*. Camila Boettiger Phillips & Alex Godoy Faúndez. XVII Jornadas de Agua, Facultad de Derecho, Pontificia Universidad Católica de Chile. 4 de Septiembre, 2020.
4. Review of water energy food nexus in Africa: Morocco and South Africa as case studies. Lahcen El Youssfi, Wesley Doorsamy, Adil Aghzar, Sidi Imad Cherkaoui, Ihssan Elouadi, Alex Godoy Faundez and Diego Rivera Salazar. E3S Web Conf., 183 (2020) 02002. DOI: <https://doi.org/10.1051/e3sconf/202018302002>
5. Economic Policy Instruments for a Transition towards a Circular Economy. A. Biggs & A. Godoy-Faúndez. Dresden Nexus Conference (DNC2020): Circular Economy in a Sustainable Society. 3-5 June 2020, Dresden Germany
6. Environment and sustainable development: understanding from young university students. Saralegui, D.; Rojas, A.; Godoy-Faúndez, A. 32nd International Congress of Psychology, 19-24 July, 2020 Prague, Czech Republic.
7. Understanding the material recovery by material flows in food retailers: Jumbo supermarket, a Chilean case linking consumption to materials. C.G. Ide, A. Godoy-Faúndez. 7<sup>th</sup> International Conference on Sustainable Solid Waste Management. 26-29 June 2019, Heraklion, Crete island, Greece.
8. Green Chemistry in Froth Flotation: Evaluating the Use of Environmental-Friendly Agents. Lorenzo Reyes-Bozo, Eduardo Vyhmeister, Alex Godoy-Faúndez, Pablo Higuera, Carlos Fúnez-Guerra, Héctor Valdés-González, José Luis Salazar, and Ronaldo Herrera-Urbina. Procemin-Geomet 2019; 15th International Mineral Processing Conference; 6th International Seminar on Geometallurgy.
9. A monthly optimization model for irrigated crops by land and water allocation. M. Kuschel-Otárola<sup>1</sup>, D. Rivera, E. Holzapfel, C.D. Palma and A. Godoy-Faúndez. 1st Latin American & Caribbean Young Water Professionals Conference. International Water Association. 5-8 November, 2018 Queretaro, Mexico
10. Uso del Hidrógeno como reductor en fundiciones de cobre. Fúnez Guerra, Carlos; Jaén Caparrós, María; Nieto Gallego, Emilio; Nieto Calderón, Beatriz; Clemente-Jul, Carmen; Reyes-Bozo, Lorenzo; Godoy-Faúndez, Alex; Vyhmeister, Eduardo. XIV International Congress on Energy and Mineral Resources Sustaining the Future April 10-13, 2018 Seville
11. Sustentabilidad Corporativa de empresas del IPSA-Chile: análisis sistémico de indicadores GRI G4 ponderados por percepciones sociales. Alex Godoy & Cristian Echeverría LASA2018 XXXVI Congreso Internacional de la Asociación de Estudios Latinoamericanos. 23-26 de Mayo, Barcelona, España
12. Technical-Economical Analysis for green ammonia production plant in Chile and subsequently transport to Japan. Carlos Funez Guerra. Beatriz Nieto Calderon, María Jaen Caparros, Emilio Nieto Gallego, Lorezo Reyes-Bozo, Alex Godoy Faúndez, Carmen Clemente-Jul, Eduardo Vyhmeister. European Hydrogen Energy Conference (EHEC) 14th-16th March 2018, Malaga, Spain.
13. Uso del Hidrógeno como reductor en fundiciones de cobre. Fúnez Guerra, Carlos, Jaén Caparrós, María, Nieto Calderón, Beatriz Clemente-Jul, Carmen, Reyes-Bozo, Lorenzo, Godoy-Faúndez, Alex, Vyhmeister, Eduardo. XIV Congreso Internacional en Energía y Recursos Minerales, Sevilla, del 10 al 13 de abril de 2018.
14. Could be the climate change a driver of incidence rate of T1D in children?. 2017. Francisca Riera & Alex Godoy-Faundez. 43rd Annual Conference of the International Society for Pediatric and Adolescent Diabetes, October 18 - 21, 2017, Innsbruck, Austria
15. Viability Analysis of a Centralized Hydrogen Generation Plant for Use in Oil Refining Industry. C. Fúnez Guerra, B. Nieto Calderón, M. Jaén Caparrós, L. Reyes-Bozo, A. Godoy-Faúndez and E. Vyhmeister. The ICHEFCT 2017: 19th International Conference on Hydrogen Energy and Fuel Cells Technology. Amsterdam, The Netherlands. December 4 - 5, 2017

16. Mainstreaming sustainable mining: Green Chemistry in froth flotation processes. Lorenzo Reyes-Bozo, Pablo Higuera, Carlos Fúnez Guerra, Alex Godoy-Faúndez, Eduardo Vyhmeister, Héctor Valdés-González, José Luis Salazar, Ronaldo Herrera-Urbina. 10th World Congress of Chemical Engineering. 2017. 1st-5th October, Barcelona, España.
17. Economic and operational optimization for semi-autogenous grinding systems, SAG. Jose Luis Salazar, Francisco Cubillos Montecinos, Lorenzo Reyes Bozo, Alex Godoy Faúndez, Pablo Donoso García. 10th World Congress of Chemical Engineering. 1-5 October, 2017. Barcelona, Spain ([www.wcce.org](http://www.wcce.org) )
18. Viability analysis for use of hydrogen as fuel in logistics centers. C. Fúnez Guerra, B. Nieto Calderón, M. Jaén Caparrós, L. Reyes-Bozo, A. Godoy-Faúndez and E. Vyhmeister. 1. The 7<sup>th</sup> World Hydrogen Technology Convention, together with CZECH Hydrogen Days. Prague, Czech Republic, 9-12 July
19. Assessment of farmers' vulnerability to climate change at river basin scale: an integrated modelling approach. Roberto Ponce, Francisco Fernández, Alejandra Stehr, Felipe Vásquez-Lavín & Alex Godoy-Faúndez. 23rd Annual Conference of the European Association of Environmental and Resource Economists, 28 June - 1 July 2017
20. Viability analysis of a centralized hydrogen generation plant for use in mobility sector. C. Fúnez Guerra, B. Nieto Calderón, M. Jaén Caparrós, L. Reyes-Bozo, A. Godoy-Faúndez and E. Vyhmeister. HYPOTHESIS Congress XII - June 28-30, 2017 - Syracuse, Italy.
21. Evaluating the use of organic wastes as collector in copper ore froth flotation. L. Reyes-Bozo, P. Higuera, C. Fúnez Guerra, A. Godoy-Faúndez, E. Vyhmeister, H. Valdés-González, J.L. Salazar, R. Herrera-Urbina. 2<sup>nd</sup> Green & Sustainable Chemistry Conference 2017, 14-17 May, Berlín, Germany.
22. Integrated sustainable Waste Management for Santiago de Chile and Inclusion of the Informal Sector. Fernanda Cabañas, Athanasios Bourtsalas and Alex Godoy-Faúndez. The Thirty-Second International Conference on Solid Waste Technology and Management. Philadelphia, March 19-22, 2017.
23. Assessment of farmers' vulnerability to climate change at river basin scale: an integrated modelling approach. Roberto Ponce, Francisco Fernandez, Alejandra Stehr, Felipe Vásquez-Lavín & Alex Godoy-Faúndez. The XVIth World Water Congress "Bridging Science and Policy" to be held in Cancun, Mexico
24. Addressing decreasing water availability for the mining industry using cost-benefit analysis. Aitken, Douglas. Rivera Salazar, Diego & Godoy-Faúndez, Alex. The XVIth World Water Congress "Bridging Science and Policy" to be held in Cancun, Mexico 2017
25. Linking Water Scarcity, Copper production and Electricity Market. The Chilean Case of interplay between greener power and uncertainty on copper prices. Alex Godoy-Faúndez; Diego Rivera, Roberto Ponce and Douglas Aitken. The XVIth World Water Congress "Bridging Science and Policy" to be held in Cancun, Mexico, 2017
26. Inefficient resolution of conflicts over water rights. Legal actions as a proxy of the increase in number and complexity of conflicts. Mauricio Herrera, Diego Rivera, Daniel Briebe, Cristian Candia & Alex Godoy-Faúndez. The XVIth World Water Congress "Bridging Science and Policy" to be held in Cancun, Mexico, 2017
27. Growth and Convergence of Residential Water Consumption. Guillermo Acuña, Cristián Echeverría, Alex Godoy-Faúndez & Felipe Vásquez. The XVIth World Water Congress "Bridging Science and Policy" to be held in Cancun, Mexico, 2017
28. Hydrometeorological risk assessment for crops in Chile. Gabriel Candia, Roberto Ponce, Diego Rivera & Alex Godoy-Faúndez, The XVIth World Water Congress "Bridging Science and Policy" to be held in Cancun, Mexico, 2017
29. Nuevos escenarios latinoamericanos y reconfiguración de los conflictos mineros ¿Cambios o continuidades? Godoy-Faúndez, Alex & Rivera, D. into the Track: Biodiversity, Natural Resources and Environment for the Latin American Studies Association (LASA). Congress (LASA2017) taking place April 29-May 1 in Lima, Peru.
30. Convergencia de Cambio Climático y Desafíos socio-ambientales en Chile. Session Panel Megaminería y gobernanza ambiental en América Latina. Godoy-Faúndez, Alex & Rivera, D. into the Track: Biodiversity, Natural Resources and Environment for the Latin American Studies Association (LASA). Congress (LASA2017) taking place April 29-May 1 in Lima, Peru.
31. Sustainable water management in agriculture: a review. C.A. Villamar, M. Lillo, J. Jara, E. Holzapfel, O. Lagos, A. Godoy. International Congress CRHIAM-INOVAGRI: "Leading Technologies for water management". October 24, 25 and 26 in the city of Concepción, 2016
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34. Total and partial replacement of main collector to concentrate copper sulfide ore by organic wastes: Kinetic studies. Lorenzo Reyes-Bozo, Dr., Pablo Higuera, Héctor Valdés-González, Eduardo Vyhmeister, Alex Godoy-Faúndez, Carlos Funez and Ronaldo Herrera-Urbina. XXVIII Congreso Interamericano de Ingeniería Química, 2016, Cusco, Perú.
35. Assessment of Biosolids and their components as main collector of copper sulfide ores. Lorenzo Reyes-Bozo, Pablo Higuera, Héctor Valdés-González, Eduardo Vyhmeister, Alex Godoy-Faúndez, Carlos Fúnez, José Luis Salazar and Ronaldo Herrera-Urbina. Energy and Environment Knowledge Week - E2kW. Paris, France 28th-30th, October, 2016. September 1-2, Viña del Mar, Chile.
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38. Coloquio CLACSO-OLA/The New School "América Latina-Estados Unidos, Diálogo de Saberes. Comisión 11: Medioambiente y Sociedad. Nueva York del 25 al 26 de Mayo. [www.clacso.org.ar/clacso/convocatoria\\_coloquio\\_clacso\\_ola\\_2016/inicio.php](http://www.clacso.org.ar/clacso/convocatoria_coloquio_clacso_ola_2016/inicio.php)
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49. 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
50. Emerging Research Issues in Latin American Environmentalism into the Track: Section Presentation (Only Section Chairs) for the LASA2014, Latin American Studies Association (LASA) Congress taking place May 21 -24 in Chicago, IL.
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