

**APPROVED ABSTRACTS**  
**(100 abstracts as of 15 December 2011)**

**Countries represented (24): Argentina, Australia, Brazil, Canada, Chile, Ecuador, Finland, France, Germany, India, Iran, Israel, Japan, Lao PDR, Mexico, New Zealand, Peru, Saudi Arabia, South Africa, Spain, Sweden, The Netherlands, United Kingdom, USA**

- 1. Multi-temporal analysis of vegetation in the oasis of Calama: relations with mining activities and water availability**  
Roberto Castro, Héctor M. Gutiérrez, Héctor A. Gutiérrez and Manuel Gutiérrez,  
National Center for Aerospace Information (CENIA), Chile
- 2. Water extraction in conjunction with El Loa farmers**  
Nelson A. Tapia Gutiérrez, Cía. Minera Xstrata Lomas Bayas, Chile
- 3. Toromocho project: process water supply and the Kingsmill Tunnel Water Treatment Plant**  
David Thomas and Raul Mollehuara; Minera Chinalco Peru S.A., Peru; Tom Higgs and Doug Lee, AMEC Americas Ltd., Canada
- 4. Operational comparison of two different manufacturer's seawater reverse osmosis membranes—cleanings and loss of rejection**  
Miles Beamguard and David Starman, Seven Seas Water Corporation, USA
- 5. Corrosion and materials for water well applications**  
Robert Badrak, Weatherford International
- 6. Completion of mine water wells**  
Thomas M. Hanna, Johnson Screens
- 7. Water use of the Colorado River basin in the Province of Mendoza for mining by dissolution (potassium chloride)**  
Mario Luraschi Gaviola, Departamento General de Irrigación, Argentina
- 8. Membrane based water & wastewater treatment solutions**  
Tim Lilley, Pall Corporation, United Kingdom
- 9. Desalination: latest trends and challenges**  
David Griffiths and Ian Fergus, WorleyParsons, Australia
- 10. ZLD technologies applied to mining effluents**  
Ángel Luis Teso Alonso, EXELERIA Everis, Spain
- 11. Total Water Management – a necessary paradigm for sustainability**  
Jon Fennell, WorleyParsons, Canada
- 12. Water accountability and efficiency at a base metals refinery**  
Frank Crundwell and Ayesha Osman, CM Solutions, South Africa; Anri Du Toit, Anglo American, South Africa

13. **The use of ionic exchange to recover uranium from acid mine water**  
Lázaro Sicupira, Ana Claudia Queiroz Ladeira, Center for the Development of Nuclear Technology (CDTN), Brazil
14. **Oxidation of manganese from acid mine drainage by using potassium permanganate**  
Regeane Martins de Freitas, Thomaz Antônio Godoy Perilli and Ana Claudia Queiroz Ladeira, Centro de Desenvolvimento da Tecnologia Nuclear, Brazil
15. **Quality assessment of fluvial sediments in the surroundings of the Osamo Utsumi uranium mine, Caldas-Minas Gerais, Brazil**  
Carlos Alberto de Carvalho Filho, Rubens Martins Moreira, Vinícius Verna Magalhães Ferreira, Pedro Henrique Dutra, Cristina Fonseca da Silva and Priscila Emerenciana da Silva, Centro de Desenvolvimento da Tecnologia Nuclear – CDTN/CNEN, Brazil; Nivaldo Carlos da Silva, Laboratório de Poços de Caldas–LAPOC/CNEN, Brazil
16. **Mine water connectivity and sulphate sources at a closed sulphide mine in dry tropical Queensland**  
Phong H. Pham, Mansour Edraki and Barry Noller, Centre for Mined Land Rehabilitation, SMI, The University of Queensland, Australia; Sue Golding, School of Earth Sciences, The University of Queensland, Australia
17. **The effect of water quality on the collectorless flotation of chalcopyrite and bornite**  
L.K. Smith and G.W. Heyes, CSIRO Process Science and Engineering, Australia
18. **Seawater desalination of the Chilean coast for water supply to the mining industry**  
Frans Knops, Estanislao Kahne, Manuel Garcia de la Mata and Cristian Mendoza Fajardo Pentair X-Flow, The Netherlands
19. **Uranium occurrence and radioactive pollution in groundwater in Asfar Thwelil, northern Arabian Shield**  
A. O. Al-Jasser, Civil Engineering Department, King Saud University, Saudi Arabia; Saad M. Mogren, Department of Geology & Geophysics, King Saud University, Saudi Arabia
20. **Assessment on drinking water and sanitation for native communities located close to mining projects**  
Paola Ibañez
21. **Protected Andean wetlands: their virtuous management within the Environmental Assessment Impact System (SEIA)**  
María Angélica Alegría and Marcelo Miranda, Gestión Ambiental Consultores S.A., Chile; Pablo Norambuena, Edáfica Suelos y Medio Ambiente
22. **How would you estimate daily potential evaporation in the Andean High Cordillera?**  
Jordan Clark, University of Vancouver, Canada; Jordi Guimerà, Amphos 21 Consulting, Chile
23. **Geochemical and isotopic characterization of underground brines**  
Jordi Guimerà and Salvador Jordana, Amphos 21 Consulting, Chile/Spain; Iván Romero, Codelco, Chile
24. **16 years of experience in mine water sulphate removal by nanofiltration**  
Erich Wittmann, Jérémie Biel, Thierry Leleyter, Veolia Eau, France; Bernie Mack, Veolia Water Solutions & Technologies Americas, USA; Bruno Forissier, Veolia Water Americas - Industrial Business Group, USA

25. **Treatment of acid mine drainage utilizing a seeded ferrite and magnetite system**  
Andrew C. Akin, Justin R. Feis and James D. Navratil, Hazen Research, Inc., USA
26. **Analysis of the relation between hydrological processes and stability of slopes for alluvium prediction**  
Marcelo Vera, División El Teniente , CODELCO, Chile; James McPhee, Universidad de Chile, Chile
27. **A global perspective on using pretreatment to prevent scaling in RO systems for mining operations**  
Karla Kinser and Arun Subramani, MWH Americas, USA; Carlos Saez, MWH Americas, Chile
28. **Taking responsibility for the environment with eco-friendly desalination**  
Miriam Brusilovsky, IDE Technkologies, Ltd., Israel
29. **Modeling isotope geohydrodynamic the flow and transport of contaminants of the aquifer Chicama, Peru**  
Carlos Palacios, Ministerio de Transportes y Comunicaciones, Peru
30. **Water footprint as a sustainability indicator of water use in copper concentrate production at Codelco El Teniente**  
Marcelo A. Olivares, Department of Civil Engineering and the Advanced Mining Technology Center, Universidad de Chile, Chile; Mauricio J. Toledo, Manuel Garcés and Alejandra P. Acuña, Department of Civil Engineering, Universidad de Chile, Chile
31. **Seawater supply for the mining industry: lessons learned in project development**  
Raymond Philippe, Hatch, Chile
32. **Wastewater treatment system using electrocoagulation, phytoremediation and activated carbon**  
Lorena Guanoluisa and Alicia Guevara, National Polytechnic School, Ecuador
33. **Participative monitoring committee of the Culebrón aquifer (Coquimbo Region, Chile): an example of water resources shared management**  
Laura Vitoria and Cristian Araya, Ingeorec, Chile, Mauricio Gómez, Minera Teck Carmen de Andacollo, Chile; Pedro Hernández, Consultor Minera Teck, Chile
34. **Considerations for seawater in mining: approaches to evaluate ARD and metals leaching potential**  
Jacob S. Waples, Christian Wisskirchen and Felipe Vásquez, Golder Associates S.A., Chile
35. **Upcoming trends in water supply cost for the mining industry in arid regions**  
Luis Soruco and Raymond Philippe, Hatch, Chile
36. **The water neutrality concept applied to mining operations**  
Pamela Muñoz, Arcadis, Chile; Ernesto Guzmán, Malcolm Pirnie, USA
37. **Assessment of a calibration technique for stochastic daily rainfall generation models using Goldsim®**  
Carlos Jara, Javier González, Solange Dussaubat and Stuart Hartley, Golder Associates S.A., Chile
38. **Improved predictive Goldsim water quality modelling for closure at Boliden Ltd. Premier Gold Project**  
Michael D. Dabiri, Klohn Crippen Berger, S.A, Peru; Ylva Ward, Boliden Minerals AB, Sweden
39. **Development and assessment of water technologies in high rainfall mine sites**  
Johann Poinapen, MWH, Australia

40. **Emerging approaches in mine water treatment to address current mine water management challenges**  
Johann Poinapen, MWH, Australia; Daniel Dupon, MWH, Americas
41. **Comparative analysis of 2D and 3D modeling of pit dewatering and pitwall pore pressure distribution**  
D. Emerson, J.T. McCord, J.U. Bessler, J.A. Clark and S. Panday  
AMEC Environment & Infrastructure, Canada/Peru
42. **Variably saturated flow and transport in a heap leaching operation**  
J.T. McCord, R. Dwivedi, K.F. Morrison and S. Panday; AMEC Environment & Infrastructure, Peru/USA
43. **Technical feasibility of high density thickener technology for the Chilean tailings: a rheological characterization**  
Andrea González, Fernando Calle, Ramón Fuentes and Juan Rayo, JRI Ingeniería, Chile; Nélica Heresi, Centro de Investigación JRI, Chile
44. **A comparison of three models for effective mine water management**  
Alan Woodley, Centre for Water in the Minerals Industry, SMI, The University of Queensland, Australia
45. **Water management in the mining industry in Chile—a new social paradigm**  
Orlando J. Acosta, Compañía Minera Doña Inés de Collahuasi, Chile; Chris J. Moran, Sustainable Mineral Institute, The University of Queensland, Australia
46. **Water management optimization in mining operations using knowledge and asset control systems**  
James E. Scholl, Dan Groves and Ernesto Guzman, Arcadis, USA
47. **Assessment and development of ocean water supplies in mining**  
Steve Diamond, Malcolm Pirnie/ARCADIS, USA; Ernesto Guzman, ARCADIS, Chile
48. **An integrated water supply system design for the mining industry: desalination plant-pumping stations-transmission water pipeline, the Chilean case**  
Rubén Muñoz, Jaime Zúñiga, Sergio González, María Teresa Ramirez and Arturo Zanetti, Hatch, Chile
49. **The impact of corrosion on mine water supply systems**  
Sergio González Arraño, María Teresa Ramírez, Rubén Muñoz and Jaime Zúñiga, Hatch, Chile
50. **Structural control of Roja Fault on the Caracoles hydrogeological system**  
Carolina Guzmán H. and José Miguel García, SRK Consulting, Chile
51. **Mining hydrogeology in karst areas of the Andes**  
M. Etienne, N. Kresic, J.T. McCord and D. Romero-Suarez, AMEC Environment & Infrastructure, Peru/USA
52. **Hydrochemical and isotopic characterization of high Andean basins**  
Jordi Guimerà and Ester Vilanova, Amphos 21 Consuting, Chile/Spain; Orlando Acosta, Compañía Minera Doña Inés de Collahuasi, Chile; Emilio Custodio, Technical University of Catalonia, Spain
53. **High Andean basin recharge estimation**  
Alvaro San Martin and Osamu Susuki, SRK Consulting, Chile
54. **Open pit inflow estimation: a non-conventional application of an analytical solution**  
Claudia Martínez and Beatriz Labarca, SRK Consulting, Chile
55. **Sandvik's new crushing/grinding technology to conserve water and energy in minerals industry**  
Hamid-Reza Manouchehri, Roger Olsson and Jonas Olsson, Sandvik Mining, Sandvik SRP AB, Sweden

56. **Update and characterization of the hydrogeological behaviour of the Catamarca central valley basin**  
Héctor J. Niederle, Marcela N. Varela, María Soledad Brusa and Luciano Alvarado, Provincia de Catamarca, Argentina; Universidad Nacional de Catamarca, Argentina
57. **Copper reclamation from mining run-offs**  
Natalie Moulin, Jochen Straub, Franz-Josef Spiess, Elvira Fernandez-Sanchis and Andreas Hauser, Siemens AG, Germany
58. **Hollow fiber membrane filtration as pretreatment for seawater RO-9 studies**  
Luis Escobar-Ferrand and Paul Clayton, Pall Corporation, USA
59. **Wireless tele-operation of Rosario mine dewatering wells**  
Javier Testart P., Marcelo Hurtado O., Rodrigo Diaz M., Pablo Espinoza F, Alejandro Barrera and Iñigo Otondo, Compañía Minera Doña Inés de Collahuasi SCM., Chile; Giorgio Contreras, Protab S.A., Chile
60. **Seawater desalination of the Chilean coast for water supply to the mining industry**  
Frans Knops, Estanislao Kahne, Manuel Garcia de la Mata and Cristian Mendoza Fajardo, Norit X-Flow, The Netherlands
61. **Sediment transport from the central western part of the Andean range to the coast of Pacific Ocean, Santa River (1977-2010)**  
Sergio Morera, Universidad Nacional Agraria La Molina, Peru; Alain Crave, Géosciences Rennes, Centre National de Recherche Scientifique, France; Thomas Condom, IRD - UMR - HydroSciences Montpellier, France; P. Vauchel, IRD Institut de Recherche pour le Développement, France; J.L. Guyot, IRD- CP 7091, Lake Sul, 71619-970 Brasília, DF, Brazil; Carlos Gálvez, CHAVIMOHIC, Peru
62. **Advanced SWRO Membrane Based on Scientific Research**  
Tadahiro Uemura, Takao Sasaki and Masahiro Henmi, Toray Industries, Inc., Japan; Emilio Gabbrielli, Toray Membrane USA, Brazil
63. **GEOTEST: development of field geochemical cells for on-site acid mine drainage monitoring**  
Carmen Gloria Dueñas and M. Carolina Soto, Fundación Chile, Chile
64. **Elements to define the groundwater flow in Paramo zones in the high Andes in Colombia**  
Francisco Castrillon, WorleyParsons, Canada
65. **Technique for improving water balance calculations by using field calibration of flow meters**  
Ville Laukkanen, Indmeas Oy, Finland; Bob Maron, CiDRA Minerals Processing, USA
66. **Toxicity bioassays for cyanide, mercury and informal tailing mining samples using daphnia magna**  
Monica Nuñez, Walsh Perú S.A., Peru
67. **Hexavalent Chromium Pollution and its microbial reduction in Sukinda Chromite Mining Area, Orissa, India**  
R. K. Tiwary, S.S. Rathor, A. Sinha, Central Institute of Mining and Fuel Research, India
68. **A case study for improvement of hydro data management at the Sepon copper/gold operation**  
Robin Davis and Keosombath Souryadeth, MMG, Lao PDR; Mel VanderWal and Tyler Barras, Golder Associates, Australia

69. **Use of geochemical and isotope tracers to evaluate the fate of cyanide in mine tailings**  
R. Aravena, Department of Earth and Environmental Sciences, University of Waterloo, Canada ; Tom Al, Department of Geology, University of New Brunswick, Canada; Kerry MacQuarrie, Department of Civil Engineering, University of New Brunswick, Canada
70. **Effluent treatment of flotation plants for water reuse**  
Luiz Teixeira, Pontifícia Universidade do Rio de Janeiro and Peróxidos do Brasil Ltda, Brasil; Cristian Marquez, Innova Andina SA, Peru
71. **How to define the best ARD's Plan for mine Waste Rock**  
David Arcos, Amphos 21 Consulting, S.L., Spain; Wolf von Igel, Amphos 21 Consulting Chile, Ltda., Chile; Eduard Ruiz, Amphos 21 Consulting, Peru; Jordi Guimerà, Amphos 21 Consulting
72. **Obtaining cooling quality water from an acid plant effluent**  
Omar Gaete, Arcadis Chile, Chile
73. **Hydrological modeling of Rio Laima floods for the design of Pirquitas mine TSF protection works**  
Cristian Patricio Salinas Talamilla and Victor Emilio D'Amico Privitera, Ausenco Vector, Argentina
74. **Desalination for utilities, industry and mining – Australia's success story for world application**  
Gary Crisp, GHD, USA; Brett Goebel and Michael Green, GHD, Australia; Kylie Chick, GHD, Chile
75. **Re-evaluating pH tests in mine water prediction**  
Taryn Noble, Anita Parbhakar-Fox and Bernd Lottermoser, School of Earth Sciences, University of Tasmania, Australia
76. **Mine drainage—challenges, technology and solutions**  
Graham Sim, GE Power and Water
77. **Sustainable remediation principles for management of contamination arising from mining operations**  
Peter Nadebaum, GHD, Australia; Juan Carlos Moraga G., GHD, Chile; Adam Tilling, GHD, Australia
78. **Intake design for minimising debris blockages and impacts to fish**  
Timothy Hogan, Greg Allen, Norman Perkins, Steve Amaral and David Schowalter, Alden Research Laboratory, Inc., USA
79. **Conceptual framework for grey water footprint of copper mining production**  
Claudia Peña, Industrial Sustainability Unit, Research Centre for Mining and Metallurgy, Chile; Víctor Carmona, Faculty of Science, University of Chile, Chile
80. **Estimation of recharge by precipitation to the aquifers of Coposa and Michincha Salar Basins**  
Francisca Chadwick and Pablo Rengif, GeoHidrología Consultores Ltda., Chile; Orlando Acosta, Compañía Minera Doña Inés de Collahuasi, Chile; José Muñoz, Pontificia Universidad Católica de Chile, Chile
81. **Comparative assessment of losses from evaporation in conventional and thickened tailings**  
Juan Eduardo Johnson, GeoHidrología Consultores Ltda., Chile; Orlando Acosta, Compañía Minera Doña Inés de Collahuasi, Chile; Cristian Ortiz and Pablo Rengifo, GeoHidrología Consultores Ltda., Chile
82. **Sources of recharge to the lacustrine Soncor system and its effect on the mining operation at Salar de Atacama**  
Cristian Ortiz, GeoHidrología Consultores Ltda., Chile; Ramón Aravena, University of Waterloo, Canada; Esteban Briones, Pontificia Universidad Católica de Chile, Chile; Corrado Tore, SQM, Chile; José Muñoz, Pontificia Universidad Católica de Chile, Chile

83. **Transient response and numerical modeling of Salar de Coposa aquifer**  
Pablo Rengifo, Eduardo Abujatum, Juan Eduardo Johnson and Chi-le Sun, GeoHidrología Consultores Ltda., Chile; Orlando Acosta, Compañía Minera Doña Inés de Collahuasi, Chile
84. **A case study for cross correlation of hydrogeologic time series in endorreic watersheds in Tarapaca Region**  
Gustavo Calle and Pablo Rengifo, GeoHidrología Consultores Ltda., Chile; Orlando Acosta, Compañía Minera Doña Inés de Collahuasi, Chile
85. **Generation of long-term hydrometeorological information to improve knowledge of the local water cycle, Collahuasi, Chile**  
Francisca Chadwick, Pablo Rengifo and Javier Uribe, GeoHidrología Consultores Ltda., Chile; Orlando Acosta and José Luis Delgado, Compañía Minera Doña Inés de Collahuasi, Chile
86. **A model concerted water allocation**  
Julio Salazar, Universidad Nacional Agraria La Molina, Peru
87. **Antamina treatment wetland at Tucush valley—five year performance review**  
Roberto Manrique, Jéssica Flores and Celedonio Aranda, Compañía Minera Antamina S.A., Peru; James J. Gusek, Golder Associates Inc., USA
88. **Water management numerical modelling at Antamina mine—ten years of lessons and challenges**  
Roberto Manrique and Sergio Yi Choy, Compañía Minera Antamina, Peru; Alberto Jorge, NBK Institute of Mining Engineering, University of Bristish Columbia, Canada; Alan Keizur, Associates, USA
89. **Chemical speciation of acid leachate generated from mine tailings in laboratory tests**  
Lucía Sarahí López and María del Carmen Durán, Faculty of Chemistry, UNAM, Mexico
90. **Determination of site-specific water quality standards for the protection of aquatic life around the Antamina Mine**  
Celedonio Aranda, Compañía Minera Antamina S.A., Peru; Dennis G. Farara, EcoMetrix Incorporated, Canada
91. **Environmental compliance and water management at the Antamina Mine**  
Jéssica Flores, Celedonio Aranda and Roberto Manrique, Compañía Minera Antamina S.A., Peru
92. **Integrated application of nano-structured compounds and microencapsulated extractants for the treatment of mining wastewaters**  
Fernando Valenzuela, Viviana Ide, Nicolás Luis, Natalia Narvaéz, Sebastián Yañez, Carlos Basualto and Jaime Sapag, Laboratorio de Operaciones Unitarias e Hidrometalurgia, Facultad Ciencias Químicas y Farmacéuticas, Universidad de Chile, Chile; Thomas Borrmann, Viclink and Victoria University of Wellington, New Zealand
93. **Photocatalytic oxidation of cyanide in aqueous solution using nano titanium oxide**  
Ahmad Khodadadi, Hossein Jadpanah and Hossein Ganjidost, Tarbiat Modares University, Iran
94. **Application of reverse osmosis process for treatment of mining contaminated groundwater**  
Carlos Saez, MWH, Chile; Arun Subramani and Edwin Cryer, MWH Americas, USA; Andrew Watson, MWH, Peru
95. **Keeping your balance: how the water balance at your mine site changes over time**  
Andrew Watson and Felix Alvarado, MWH Peru S.A., Peru

96. **Wastewater management during mining projects construction and operation**  
Jorge Arruete, FLUOR Mining & Metals, Chile
97. **Biosorption equilibrium studies of lead from aqueous solutions onto three different biomasses**  
Gabriela H. Pino, Abiatar P. Cardoso, Maurício Torem, Victor R. Costa & Belenia M. Bueno, Catholic University of Rio de Janeiro, Brazil; Diego M. Veneu, Center for Mineral Technology, Brazil
98. **Water supply in Peru & Chile—the challenges and the solutions**  
Doris Hiam-Galvez, Hu Fleming and Amin Ghobeity, Oscar Osos; Hatch, Peru/Canada
99. **Extensive technologies for the treatment of sulfate in tailing-facility effluents: from bench to the pilot plant**  
Andre Gerth, Anja Hebner, BioPlanta GmbH, Germany; Claudia Ortiz, Mario Carreño, Marcela Wilkens, Faculty of Chemistry and Biology, Universidad de Santiago de Chile, Chile
100. **Prognoses of groundwater dominated flooding of abandoned mining areas in eastern Germany**  
Bertram Monnikhoff, Junfeng Luo & Peter Schätzl, DHI-WASY, Germany

## REPRESENTED ORGANIZATIONS CLASSIFIED BY CATEGORY

### Mining Companies

1. Anglo American, South Africa
2. Boliden Minerals AB, Sweden
3. Cía. Minera Xstrata Lomas Bayas, Chile
4. Codelco, Chile
5. Compañía Minera Antamina, Peru
6. Compañía Minera Doña Inés de Collahuasi, Chile
7. Minera Chinalco Peru S.A, Peru
8. Minera Teck Carmen de Andacollo, Chile
9. MMG, Lao PDR
10. SQM, Chile

### Engineering and Consulting Firms

1. Alden Research Laboratory, Inc., USA
2. AMEC Americas Ltd, Canada
3. AMEC Environment & Infrastructure, Canada/Peru/USA
4. Amphos 21 Consulting, Chile/Peru/Spain
5. Arcadis, USA/Chile

6. Ausenco Vector, Argentina
7. BioPlanta GmbH, Germany
8. Centro de Investigación JRI, Chile
9. CM Solutions, South Africa
10. Consultor Minera Teck, Chile
11. EcoMetrix Incorporated, Canada
12. Edáfica Suelos y Medio Ambiente, Chile
13. Exeleria Everis, Spain
14. FLUOR Mining & Metals, Chile
15. GeoHidrología Consultores Ltda., Chile
16. Gestión Ambiental Consultores, Chile
17. GHD, Australia/Chile/USA
18. Golder Associates, Australia/Chile/USA
19. Hatch, Chile
20. Hatch, Peru
21. Hazen Research, Inc., USA
22. IDE Technkologies, Ltd., Israel
23. Indmeas Oy, Finland
24. Ingeorec, Chile
25. JRI Ingeniería, Chile
26. Klohn Crippen Berger, S.A., Peru
27. Malcolm Pirnie, USA
28. MWH, Australia/Chile/Peru/USA
29. Protab S.A., Chile
30. Sandvik Mining, Sandvik SRP AB, Sweden
31. Seven Seas Water Corporation, USA
32. Siemens AG, Germany
33. SRK Consulting, Chile
34. Toray Industries, Inc., Japan
35. Toray Membrane USA, Brazil
36. Veolia Eau, France

37. Veolia Water, USA
38. WorleyParsons, Australia/Canada

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## Equipment and Service Suppliers

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1. CiDRA Minerals Processing, USA
2. DHI-WASY, Germany
3. GE Power and Water
4. Innova Andina SA, Peru
5. Johnson Screens
6. Norit X-Flow, The Netherlands
7. Pall Corporation, United Kingdom, USA
8. Waters of Patagonia, Chile
9. Weatherford International

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## Universities

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1. Catholic University of Rio de Janeiro, Brazil
2. King Saud University, Saudi Arabia
3. National Polytechnic School, Ecuador
4. Pontificia Universidad Católica de Chile, Chile
5. Pontifícia Universidade Católica do Rio de Janeiro, Brazil
6. Tarbiat Modares University, Iran
7. Technical University of Catalonia, Spain
8. The University of Queensland, Australia
9. Universidad Nacional Autónoma de México, Mexico
10. Universidad de Chile, Chile
11. Universidad de Santiago de Chile, Chile
12. Universidad Nacional Agraria La Molina, Peru
13. Universidad Nacional de Catamarca, Argentina
14. University of British Columbia, Canada
15. University of New Brunswick, Canada
16. University of Tasmania, Australia
17. University of Vancouver, Canada

18. University of Waterloo, Canada
19. Viclink and Victoria University of Wellington, New Zealand

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## Government Organizations and Research Centres

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1. National Center for Aerospace Information (CENIA), Chile
2. Departamento General de Irrigación, Argentina
3. Center for the Development of Nuclear Technology (CDTN), Brazil
4. Center for Mineral Technology, Brazil
5. Laboratório de Poços de Caldas (LAPOC/CNEN), Brazil
6. CSIRO Process Science and Engineering, Australia
7. Ministerio de Transportes y Comunicaciones, Peru
8. Provincia de Catamarca, Argentina
9. Institut de recherche pour le développement- CP 7091, Brazil
10. Géosciences Rennes, Centre National de Recherche Scientifique, France
11. Institut de recherche pour le développement- UMR - HydroSciences Montpellier, France
12. CHAVIMOHIC, Peru
13. Fundación Chile, Chile
14. Walsh Perú S.A., Peru
15. Central Institute of Mining and Fuel Research, India
16. Research Centre for Mining and Metallurgy, Chile