

<b>Abstract</b>	<b>Author(s)</b>	<b>Company / Affiliation</b>
<b>The effects of haul roads on ore compaction and wettability of leach pads</b>	Dale F. Rucker Brian Cabbage Moira Poje Shawn Calendine	hydroGEOPHYSICS, Inc.
<b>Accounting for Complexity in Draindown Modelling for Heap Leach Closure</b>	Iozsef Miskolczi Patric Lassiter	SRK Consulting (Canada) Inc.
<b>Wireless Heap Leach Monitoring and Control</b>	Larry Bolton Shari Hurley	Emerson Automation Solutions
<b>Ore permeability and blending evaluation to optimize heap leach performance</b>	Jason Keller Tzung-mow Yao Michael Milczarek Vince Lofftus	GeoSystems Analysis, Inc.
<b>Geotechnical Evaluation of properties and liquefaction potential using CPTu for a Heap and ROM Leaching Facilities</b>	Guillermo Torres ChileSergio Pinos Patricio Rivera	Geotechnos
<b>Fine and Coarse Leached Ore Characterization, Response and Liquefaction Susceptibility</b>	Oscar Meza Gushiken Peceros Franklin Olaya Waldo Huallanca	Anddes
<b>Changes in water management during heap leach lifetime in heavy-rainfall sites</b>	Jeymy Huamanyauri Thalia Ordinola Daniel Pulcha Carlos Iparraguirre	Anddes
<b>See the metal you left behind: in-heap sensors for monitoring fluid flow</b>	Steven Slupsky George McIssac	Scanimetrics
<b>Numerical modelling of a mine waste dump-heap leach pad with different constitutive models</b>	Myzael Valdivia Roberto Quispe Jesus Negrón Renzo Ayala Denys Parra	Anddes
<b>Mining Practice and Capacity Building based on ESG Principles</b>	Chaitna Sinha Krishna P. Sinha Mark E. Smith	
<b>Liquefaction in Heap Leach Piles – A Primer</b>	Mark E. Smith Krishna P. Sinha	Pitneau Associates

<b>Pulp Agglomeration Process &amp; Application for Gold and Silver Heap Leach Operations</b>	Caleb Cook Timothy Scott	Kappes, Cassiday & Associates
<b>Project Planning and Verification using METSIM Simulation Software at Brazilian Nickel's Piauí Niquel Project</b>	Alex Holtzapple Anne Oxley Omar Caceres Carlos Fonseca	Metsim International, LLC
<b>METALLURGICAL CONSIDERATIONS FOR MODELLING THE RECOVERY OF GOLD FROM HEAP LEACH FACILITIES (HLF)</b>	R. Nick Gow Barry Carlson Brenden Fetter Brittany Garcia	Forte Analytical
<b>PROCESS UPDATE ON DYNAMIC HEAP BIOLEACHING OF A BLACK SCHIST ORE</b>	Ville Heikkinen Antti Arpalahti David Garcia-Balbuena	Terrafame Sotkamo mine
<b>CPT-based liquefaction potential assessment of leached ore exhibiting microstructure</b>	Ronald Landa Gerson Urbina Denys Parra	Anddes
<b>Operations Ramp Up at Victoria Gold Corp.'s Eagle Gold Mine</b>	Jeffrey Winterton Alex Martin	Victoria Gold
<b>Bentonite-Polymer Composite Geosynthetic Clay Liners for Heap Leach Liners</b>	Craig H. Benson Yu Tan Jimmy Youngblood Sabrina L. Bradshaw	University of Wisconsin-Madison
<b>First radiographic characterization of an active leaching heap</b>	Tancredi Botto Ricardo Repenning Nicolás De Beer	Muon Vision Inc
<b>Heap leaching process of "AltanTsagaan ovoo" gold and silver deposit</b>	Batdorj Edenebat Batjargal Bayarsaikhan Enerel Lkhagvadorj Kherlen Tumurtogoo	Steppe Gold LLC / Altan Tsagaan Ovoo
<b>Consolidation behavior of copper heap leach ore at different initial irrigation rates</b>	Ángel D Briseño Arellano Tzung-mow Yao Michael Milczarek Dale Rucker Kenneth Carroll Mark Brusseau	Geosystems Analysis, Inc.,
<b>At the limit of Overliner material properties applied for high-capacity Heap Leach projects</b>	Andrés León Saavedra Javiera Espinoza Montoya	Axios Ingeniería SpA,

<b>Statistical functions for the development of heap leach pads cost estimation</b>	Franco Sánchez Axel Castro Nancy Tafur	Anddes
<b>IXOS® Technology, the epitome of excellence in today's hydrometallurgical precious metals and base metals recovery</b>	Nicol Nuku Newton Sherman McGill Jon Gluckman	Sixth Wave Innovation's Inc
<b>Criteria to Estimate and Use Peak and Post-Peak Shear Strength of Interface in Heap Leach Pads Design</b>	Waldo Huallanca Elard Quispe	Anddes Asociados S.A.C
<b>Modelling the iodine-assisted chalcopyrite leaching in ferric sulfate media in response to operating parameters in heap leach</b>	Ronny Winarko Wenyng Liu David B. Dreisinger Akira Miura	University of British Columbia
<b>Updated Statistics on Leaks per ha, based on 12 M m2 ELL surveys conducted on different countries and facilities over the last decade</b>	Silverio Prota	Anddes Argentina S.A./ Anddes USA LLC
<b>Environmental footprint of rare earth oxides production from coal refuse using heap leaching</b>	Mohsen Rabbani Ehsan Vahidi	University of Nevada
<b>ALTAN TSAGAAN-OVOO MINE'S MINE CLOSURE CONCEPT PLAN</b>	G. Munkhjin G. Gunbat E. Battulga G. Nyambayar E. Khangai	Steppe Gold LLC
<b>A Laboratory and Numerical Approach to Assess Ore Consolidation and Solution Distribution During the Ramp Up Period</b>	Tzung-mow Yao Ángel D Briseño Arellano Aayush Piya Jason Keller Michael Milczarek	Geosystems Analysis, Inc
<b>Assessing the environmental footprints of heap leach recovery for low-grade oxide ore</b>	Saeede Kadivar Ehsan Vahidi	University of Nevada
<b>New Excess Flow Valves for Preventing Side Slope Washouts</b>	Zachary Felkey	Newmont Cripple Creek and Victor
<b>Probabilistic analysis of failure in a mine waste storage - heap leach pad</b>	Roberto Quispe Jesus Negrón Miguel Jimenez Carlos Huaman	Pontifical Catholic University of Peru
<b>Geotechnical Engineering: The "Observational Method" Applied to Monitoring of Slopes during Operational Activities for Heap Leach Pad Facilities</b>	Michael Grass Patrick Nketia Christopher Jester	Golder Associates USA Inc.,
<b>New Projects: Review of Safford Lone Star Leach Pad Design, Construction and Operation</b>	Philippa Killian	Freeport-McMoRan Inc
<b>Governance and Management: Using KPI(s) and Early Indicator Dashboard to Manage and Communicate Heap Leach Facility Performance</b>	Patrick Nketia Garrett Laney	Freeport-McMoRan Inc

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**The Piauí Nickel Heap Leach Commercial Plant**

Anne Oxley  
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Mark E. Smith

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**Utilizing Online Cyanide Analyzers in Heap Leach Operations**

Pam Moyo  
Sileymane Lo  
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