

DAY 2 – HYDROGEOLOGY AND DRY

08:30 – | **Opening session and keynotes**
10:30

Chair: Andy Robertson, *InfoMine and Robertson GeoConsultants, Canada*

08:30 – | **OPENING ADDRESS – The challenge of water in Peru**
09:30

Pedro Pablo Kuczynski, *Economist, former Minister of Energy and Mines, former Minister of Economy and former presidential candidate, Peru*

09:30 – | **KEYNOTE HYDROGEOLOGY 1 – Challenges of karst hydrogeology from around the world with focus on mining**
10:00

Neven Kresic, *AMEC, USA*

10:00 – | **KEYNOTE HYDROGEOLOGY 2 – Hydrogeological evaluation of mine waste facilities in high-mountain karst terrain in Peru**
10:30

David Evans, *MWH, Peru*

10:30 – 11:10 | **COFFEE BREAK**

PLENARY SESSION 2

Chair: Michael Jacobs, *Goldcorp, Canada*
SAN MARTIN BALLROOM (JOINT)

11:10 – | **KEYNOTE DRY – Freeport's water management program**
11:40

Tamara Johndrow, *Freeport McMoran Mining Company, USA*

11:40 – | **Mine dewatering in karst formations**
12:10

Geoff Beale and Shane O'Neil, *Schlumberger Water Services, UK*; Cristian Bittencourt, *Compañía Minera Antamina, Peru*; Jeremy Dowling, *Schlumberger Water Services, UK*. Presented by Mark Thomasson, *Schlumberger Water Services, USA*

12:10 – | **Enviably water recovery in a desert environment – a case study**
12:40

James Obermeyer, *MWH Americas, USA*; Justo Enriquez, *Sociedad Minera Cerro Verde, Peru*; Tatyana Alexieva, *MWH Americas, USA*

12:40 – 14:00 | **LUNCH**



SESSION 4 – HYDROGEOLOGY

Chair: Jerry Rowe, *Hatch, Canada*
SAN MARTIN BALLROOM ABC

14:00 – | **Engineering in karst terrain**
14:20

Petar Milanović, *International Association of Hydrogeologists (Serbian Chapter), Serbia*

14:20 – | **Design of a dewatering system for a geothermally-influenced underground gold mine**
14:40

Roman Popielak, Joanna Moreno and Arlen Striegl, *Golder Associates, USA*

14:40 – | **Water balance in extreme conditions: Application to the Andean High Cordillera**
15:00

Jordan Clark and Jordi Guimerà, *Amphos 21 Consulting, Chile*

15:00 – | **Joint use of natural and artificial tracers to determine infiltration process and the hydrogeological functioning of Villanueva del Rosario karst system (Southern Spain)**
15:20

Matías Mudarra-Martínez and Bartolomé Andreo-Navarro, *University of Malaga, Spain*

15:20 – 15:50 | **COFFEE BREAK**

SESSION 6 – HYDROGEOLOGY

Chair: Todd Keay, *Montgomery & Associates Consultores, Peru*
SAN MARTIN BALLROOM ABC

15:50 – | **Hydraulic conductivity characterization of fractured rock at mine sites**
16:10

James Kunkel, *Knight Piésold, USA*

16:10 – | **Simulation of open pit flooding by incorporating non-linear boundary conditions in 3D hydrogeological models**
16:30

Salvador Jordana, Albert Nardi and Jorge Molinero, *Amphos 21 Consulting, Spain*

16:30 – | **Development and transient calibration of a numerical model for an open pit mine located in a geologically complex fractured rock setting**
16:50

Mark Thomasson, *Schlumberger Water Services, USA*; Lyle Davis, *Montgomery & Associates, USA*

16:50 – | **Installation of infiltration gallery at Greens Creek Mine – Juneau, Alaska**
17:10

Thomas Hanna, *Johnson Screens, USA*; Eric Sundberg and Gabriel Hayden, *Greens Creek Mine, USA*

SESSION 5 – DRY

Chair: James Obermeyer, *MWH, USA*
SAN MARTIN BALLROOM DEF

14:00 – | **Addressing complexity in water resources modeling for mining water supply in extremely dry areas**
14:20

Enrique Triana and Edwin "Chip" Paulson, *MWH Americas, USA*

14:20 – | **Dust mitigation – challenges, technology and solutions**
14:40

Jennifer Brown, *GE Power & Water, USA*; Lisandro Palma, *GE Power & Water, Chile*

14:40 – | **Sewage water reuse: A contribution to water consumption on sites with extreme thermal conditions**
15:00

Raúl Marino, Roberto Caso, Oscar Sagardía and Osvaldo Falcon, *Minera Argentina Gold, Barrick Veladero, Argentina*

15:00 – | **Defining the financial value of mine water security decisions in an arid multi-user basin**
15:20

Edwin G. (Chip) Paulson, Enrique Triana, John Chahbandour and Pranay Sanadhya, *MWH Americas, USA*

SESSION 7 – DRY

Chair: Jacques Wiertz, *Universidad de Chile*
SAN MARTIN BALLROOM DEF

15:50 – | **Challenges in tailings water balance analysis – make-up water, seepage and consolidation**
16:10

Christoph Wels and Jack Caldwell, *Robertson GeoConsultants, Canada*

16:10 – | **Laboratory assessment of water losses from drying and re-saturation of tailings deposits for mines in arid climates**
16:30

Eduardo Salfate, *Golder Associates, Canada*; Marcos Pinto, *Golder Associates, Chile*

16:30 – | **Mine water management at Southern Peru Copper: A case study in an extremely arid environment**
16:50

Jose De Piérola, *Southern Peru Copper Corporation, Peru*

16:50 – | **Research on a polymer enhanced mineral liner – a special focus on desiccation behaviour**
17:10

Mike Naismith, *Trisoplast® Mineral Liners, The Netherlands*; Wolfgang Behrens and Jan Schröder, *G quadrat Geokunststoffgesellschaft mbH, Germany*. Presented by Eugene Timmermans, *Trisoplast® Mineral Liners, The Netherlands*

17:10 – | **IDE expertise on economical and environmentally friendly desalination solutions for SWRO projects**
17:30

Orlando Carreño, *IDE Technologies, USA*

19:30 – 22:30 | **GALA DINNER AT HUACA PUCLLANA**