

Organized By



MINE WATER INNOVATION & TECHNOLOGY CONFERENCE

www.wpsummits.com

16 - 17 AUGUST 2017
BELMOND MIRAFLORES PARK, LIMA, PERU

Producer's Note:

Dear Industry Colleagues,

Water has always been important for mining, but suddenly it has become a **"Hot-button"** issue. Water is a critical resource that touches virtually every aspect of the mining process. It is also a shared resource that is critical to life. Stakeholders want to know how the industry is using water, and what we're doing to mitigate potential impacts.



In order to become **Sustainable**, Mining companies are now looking for new methods & technologies to reduce water use and implement different ways to convert Water into an Asset. Mining companies are striving to manage water responsibly across all aspects of their operations – from mine processing to managing dust, supplying drinking water and wastewater services etc. The existing challenges and new environmental regulations are creating new opportunities for water experts to look into Innovative & Progressive Water Technologies.

This year **White Paper Summits (WPS)** brings a unique conference to Lima, Peru where Senior Water Professionals & Stakeholders will come together in an interactive environment to explore innovative solutions to optimize existing systems, and adapt new technologies to support reduction of water usage in Mining.

We look forward to seeing you in Lima!!

A handwritten signature in dark ink, consisting of stylized initials and a long horizontal stroke.

Ritika Sinha

Production Director – Mining & Metals

What makes this conference a “**Must attend**” event?

WPS introduces “Mine Water Innovation & Technology Conference” which is conceptualized and developed with many years of experience thereby making it a **leading forum** in the Industry to share best practices and get first-hand knowledge from the experts.

It is this reason why we attract the “**Best Minds in Water**” from across the region.



Mine Water Innovation & Technology Conference will:

Showcase

Next Generation Water Technology & Innovation Roadmap

Provide

a platform for Water Professionals to exchange knowledge and gain an insight into new technologies, techniques and solutions for sustainable Water Management

Focus

on building resilience and accelerating the adoption of innovative technologies

Combine

thought provoking keynote presentations, Practical Case Studies and Interactive Discussions by Top Water Experts

Committee of Water Experts



Jose De Pierola
Manager Water Resources
Southern Peru Copper Corporation



Jose Burgos
Head of Tailings
Anglo American



Ivan Romero
Manager Water Resources
Barrick Gold



Dr. Jorge Chavez
General Manager
EnyPhys Peru



Dr. Santiago JM Del Pozo Donoso
Director of Engineering, Risk Prevention & Environment
Moguel De Cervantes University



Dr. Cayo Ramos
Professor
Universidad Nacional Agraria La Molina



Dr. Andre Xavier
Project Manager
University of British Columbia



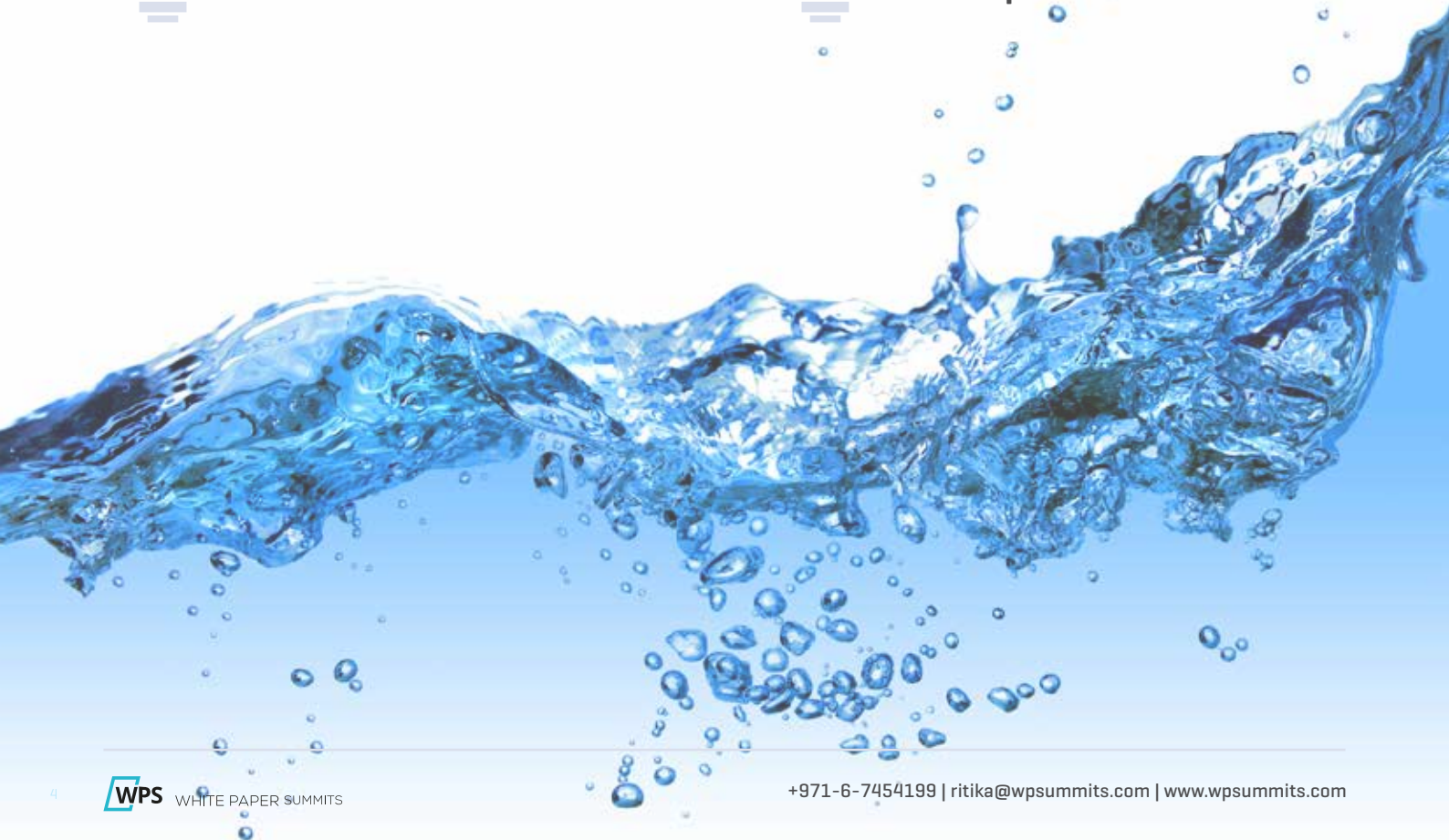
Juan Pablo Rubilar
Head of Natural Resources & Heritage
Minera Los Pelambres



Pedro M. Vera Ortiz
Chief of Legal Department
Cía. Minera Santa Luisa S.A.



Nelson Nuñez Vidal
Sustainability & Compliance Manager
GoldCorp



KNOW THE SPONSORSHIP & EXHIBITION OPPORTUNITIES

"Mine Water Innovation & Technology Conference"

will give an opportunity for Leaders, Consultants & Solution Providers to gather and discuss strategic, technical and risk considerations towards Water in Mining

The Conference will give your company an:

1. Opportunity to achieve face to face interaction and
2. Initiate new business relationship with high level executives

With extensive Exhibiting & Sponsorship options, packages can be tailor made to suite your company's objective.

For more information and to discuss the right opportunity contact: **ritika@wpsummits.com**

WHO WILL YOU MEET?

Heads of Water Resource Management	Senior Environment Experts	Water Resources and Water Supplies Superintendents
Directors for Environment	Senior Hydrologists	Hydrogeologists
Heads of Sustainability	Environmental Officers and Managers	Consultants
Heads of Environment	Project Managers	Researchers
Waste Management Directors	Water Treatment Specialists	Technology Providers
CSR Directors/Managers	Mine Planners	Government Regulators
Mine Managers	Water Resource Managers	
Mine Site Water Managers/Engineers	Tailings Managers	

DAY ONE | 16th August 2017

7.30 REGISTRATION AND NETWORKING BREAKFAST

8.40 WELCOME NOTE FROM THE CHAIRMAN

9.00 Regulatory Vision on Innovation & Make Mining Environmentally Sustainable

- Facilitating innovation – the role of the regulator
- How far does regulation prevent or drive forward innovation?
- Building and embedding a culture of innovation: Challenges & Solutions

9.30 VISIONARY THOUGHT HOUR : “Water is an Asset not Liability”- Redefining Water Management Excellence

- How can you reduce “**Water Footprint**” by improving operational excellence, investing in technology, and engaging and partnering with our stakeholders?
- Revisit your water management strategy to convert water into asset
- How can operations be encouraged to go beyond compliance & build effective resilience strategy
- How can technology and Innovation play significant role to increase water efficiency in mining?
- What are the current incentives to facilitate water & energy efficiency?
- What would today’s mining leaders like to see in terms of future regulation and incentives?

10.30 SPEED NETWORKING OVER COFFEE & TEA BREAK

11.00 Moving from Traditional Water Management to Smart Water Management

- Reshaping Water Management into Smart Water Management
- Asset Optimization through software and connectivity
- Environmental management through real time monitoring and reporting
- Implementing SCADA systems for water and wastewater

11.30 Technology Disruption & Innovation: Impact on Water Management

- New technology & opportunities towards water efficiency
- Implementing of Disruptive technology into current model to improve efficiency and save cost
- Using advance biological process to treat waste water

12.00 Managing Our Water – Measurement, Monitoring and Data Collection

- Continues measuring & monitoring of water quality around mine sites
- Protecting health of local water systems through regular monitoring of surface and ground water
- Gathering data and developing monitoring program to ensure regulatory compliance

12.30 Applying Water Information Management Solution for Cost Effective Production

- Application of WIMS to manage water and wastewater systems
- Using IMS to secure data collection and make operational decisions without delay
- Leakage Management and Reporting Systems

13.00 NETWORKING LUNCH BREAK

14.00 Investing in Right Water Treatment Technologies

- Resolving water treatment challenges through innovative & cost-effective approach
- Evaluating technology investment to reduce the overall cost of treatment for water & wastewater
- Reducing water consumption by implementing right water treatment and recycling solutions

14.30 ONE-ON-ONE DISCUSSION : Water, Innovation and the UN Sustainable Development Goals

This session will bring panel of 4 members to discuss :

- How can Mining work hand in hand with Stakeholders to achieve United Nations SDG?
- Strengthen the participation of local communities in improving water and sanitation management
- How can mining companies cooperate and get involved with research centers for water innovation R&D?
- How can mining expand international cooperation and capacity-building support to water?

15.30 AFTERNOON BREAK & NETWORKING

16.00 LIGHTNING ROUNDS : How People & Process Can Contribute To Drive Innovation Culture In The Organization?

In this session each Water Expert will have 10 minutes to summarize their views, highlight challenges and results delivered. Then in the second half, we’ll move to an audience Q&A and panel discussion as we explore the best practices and lessons learned.

17.00 INTERACTIVE WRAP-UP SESSION AND CHAIRMAN’S CLOSING REMARK

17.30 MAKING CONNECTIONS: COCKTAIL & NETWORKING RECEPTION

DAY TWO | 17th August 2017

7.30 REGISTRATION AND NETWORKING BREAKFAST

8.50 WELCOME NOTE FROM THE CHAIRMAN

9.00 Integrated Data Management to Assess Groundwater Dynamics

- Application of advance data management system for borehole siting, drilling and on-going monitoring
- Managing ground water balance at mine sites by Integration of GPR data with hydrogeological parameters
- Advance groundwater monitoring and hydraulic testing method through 3D imaging

9.30 Online Measurement & Monitoring of Surface Waters

- Cost effective monitoring small and large surface water bodies
- Advance long-run monitoring & detection for microbiological contamination in surface water
- Real time visualization & reporting to help maintaining the compliance

10.00 FAST TRACK: HOW BIG DATA ANALYTICS CAN MAKE WATER MANAGEMENT SMARTER ?

In this session each Speaker will have 10 minutes to summarize how IT can support in integrating Water Management Systems to Deliver Real Time Data to reduce risk and increase profitability. In the second half, we'll move to an audience Q&A and panel discussion as we explore the best practices and lessons learned.

10.30 SPEED NETWORKING OVER COFFEE & TEA BREAK

11.00 Reducing Energy Consumption through Intelligent Pumping Solutions

- Improving energy efficiency of pumping systems through real-time scheduling systems
- Reliable quantitative approach for lowering operating costs
- Opportunity to save energy costs for well systems

11.30 The Internet of Water - Digital Water & Impact of IoT

- Application of Smart Technology & IoT for sustainable Water Management
- Use of Big data for predictive analytics
- Digitizing water monitoring & control systems

12.00 NEW TECHNOLOGY & INNOVATION HUB :

Disruptive technologies can take many forms. There can be expressions of new ways to harness or use less water. Mining endures pressures to use water more wisely thereby providing new market demands for transformative technologies Today, new technologies such as **Drones, Waste Water Treatment & Reuse , Desalination, Groundwater Technology** many more are driving the next wave of sustainability in Water Management. **This session gives opportunity to top 3 trendsetters and technology providers to deliver 15 minutes presentation on their product roadmap.**



13.00 NETWORKING LUNCH BREAK

14.00 Modern Tailings Management Technology

- Designing tailings solutions integrated with mining and processing facilities
- Careful planning of the Tailings Storage Facility
- Implement advance Tailings Disposal System

14.30 Embracing Innovation in Tailing Monitoring

- New technology to improve tailings storage facility safety
- Automation of tailing monitoring systems to minimize dam failure
- Using data acquisition systems to monitor tailing dam walls and slopes

15.00 Optimize Tailings Disposal and Water Recovery & Reuse

- Advance paste thickener technology used in tailing streams
- Water recovery from a tailing stream for reuse
- Implementing tailings thickening process

15.30 AFTERNOON BREAK & NETWORKING

16.00 Implementing Efficient Solution for Dewatering of Tailings

- Selection of filtration for tailings dewatering
- Process water recovery through efficient filtration systems
- Use of Advanced Process Control platform for dewatering process control

16.30 OPEN INTERACTIVE DISCUSSION - THE FUTURE OF WATER IN MINING: Can New Technologies and Innovation Drive Mining Companies Towards "ZERO WATER" Future?

This closing session will give opportunity to the audience to share their views and experience on how & what technologies have helped their operations to reduce water usage and discuss the future of Water in Mining.



17.30 INTERACTIVE WRAP-UP SESSIONS AND KEY TAKEAWAYS DISCUSSED

17.45 CLOSING NOTES FROM THE CHAIRMAN & END OF CONFERENCE