



12TH

International
Speakers

Corporate
Exhibitions

Field
Experience

International
Conference on
**Sustainable
Development** in
the **Minerals
Industry**

July

14–16,

2026

Four Points
by Sheraton

Medellín,

Colombia



S²D⁰I²M⁶

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General agenda

14 Tuesday

Time	Conference	Speakers	Origen
7:00 - 8:00	Registration		
7:45 - 8:10	Ceremonial Welcome	Oscar Jaime Restrepo Baena, presidente SDIMI 2026. // Eva Cristina Manotas Rodríguez, decana de la Facultad de Minas, Universidad Nacional de Colombia – UN.	Medellín, Colombia
8:10 - 8:30	Mining with Purpose	Lina Beatriz Franco Idárraga. Presidenta Agencia Nacional de Minería	Bogotá, Colombia
8:30 - 9:00	Decarbonization and circular economy	Jurgen Kretschmann	Bochum,Alemania
9:00 - 9:20	Business conference: Colombia: The Next Copper Giant? How to Build It Responsibly	Ian R. Harris. Libero Cobre	Colombia
9:20 - 9:40	Mining and climate resilience under the EU-Clean Industrial Deal	Walter Frenz	Aachen, Alemania
9:40 - 10:00	Trade-offs and balances in the recovery of crms from low grade secondary sources: experience from metallico project	Gian Andrea Blengini	Turin, Italia
10:00 - 10:30	Mining as an Opportunity.	Ana María Zamora. ACM	Bogotá,Colombia
10:30 - 10:45	Coffee break.		
10:45 - 11:05	Sustainable Development: History, Critique, and Possibilities for Engineering Beyond the UN Sustainable Development Goals	Juan C Lucena	Golden Colorado,USA
11:05 - 11:25	An analysis of the socio-economic impacts of mine closures in Namibia	Harmony Musiyarira	Windhoek, Namibia
11:25 - 11:45	A reference life cycle inventory to support the decarbonization of global primary copper production	Stefano Antonini	Turin, Italia
11:45 - 12:05	Business conference: Complejo Marmato Excelencia operacional y de seguridad en minería subterránea.Aris Mining.	Andrés Felipe Jaramillo Gil.	Colombia
12:05 - 12:35	Regenerative Perspectives of Ecuatorial Mining	Brigitte Baptiste.	Bogotá, Colombia
12:35 - 12:55	Cross-sector partnership for biodiversity conservation in operational areas of extractive sector companies	Gustavo Aristizabal.	Bogotá, Colombia
12:55 - 13:15	Extraction of multiple critical minerals from coal-deprived acid	Qingqing Huang.	Morgantown, USA
13:15 - 13:35	Life Cycle Assessment of Mineral Raw Materials: Overcoming Challenges to Enable Better Decisions	Nasib Al Habib, Kwame	Rolla Missouri,USA
13:35 - 14:00	Commercial Exhibition.		
14:00 - 16:00	Lunch – world cup semifinal 1		
16:00 - 16:20	Reshaping social sustainability in mining through continuous systemic graph analytics and ai-driven computational social sciences	Melissa Penagos.	Medellín, Colombia
16:20 - 16:40	Applied Digital Reality: Integration of Multidimensional Data from Operation to Environmental Restoration	Arwin Florez.	Medellín, Colombia
16:40 - 17:00	A Differential Financial Assurance Model for ASM (MAPE) Closure in Colombia	Tommy Vallejo.	Medellín, Colombia
17:00 - 17:20	Environmental liability management model.	Gustavo Viana.	Medellín, Colombia
17:20 - 17:40	Panel: Sustainability in Colombian mining companies.	Coordinated by APMC.	Colombia
18:00 - 19:30	Cultural Reception.		

15Wednesday

Time	Conference	Speakers	Origen
7:45 - 8:00	Welcome		
8:00 - 8:30	Are the mineral raw materials industries leveraging the sustainable development	Juan Maria Menéndez Aguado.	Oviedo, España
8:30 - 8:50	Asm production trends for critical raw materials in the Congo	Dr. Philip Schütte.	Hannover, Alemania
8:50 - 9:10	Expand appalachia: modern exploration of historic minin areas for future material feedstocks//Richard Bishop.	Richard Bishop.	Blacksburg, Virginia,USA
9:10 - 9:30	Unlocking hidden gold: from informality to investment viability - a systems-based approach to optimising Zimbabwe’s artisanal and small-scale mining value chain	Tinotenda I. Tingini.	Johannesburg, South Africa
9:30 - 10:00	Technological Innovations for Sustainable Surface Mining Operations in Canada	Vladislav Kecojevic.	Kingston, ON, Canada
10:00 - 10:15	Coffee break.		
10:15 - 10:35	Business Conference: Minería con Enfoque de Prosperidad	Oscar Saldarriaga Jaramillo, Country Manager, y Juan David Ramírez Soto, Sustainability Manager. Gramalote.	Colombia
10:35 - 10:55	Complicating the Social, Code Switching, and Epistemic Humility in Engineering Education: Sociotechnical Competencies with Applications to Mining	Shelby Mary Gilson.	Golden Colorado,USA
10:55 - 11:15	"New Insights into Water Security in Extractive Contexts: A Multidimensiona Assessment of Informal Mining Economies in Colombia and Palestine Using an Inclusive Water Poverty Index (IWPI) Framework	Zain Gonzalez.	Medellin, Colombia
11:15 - 11:35	Decarbonization pathways beyond 2030: a critical analysis of corporate roadmaps in the mining industry	Stefano Antonini.	Turin,Italia
11:35 - 12:05	Cleaner gold production examples of viable hg-free small scale mining projects	Tatiane Marin.	Valparaiso, Chile
12:05 - 12:25	Revalorization of the Santa Catalina Tailings in Peru Through Flotation, Roasting, and Gold Leaching	Juan Vega.	Lima, Perú
12:25 - 12:45	Pro d.m.: a generalized mcdm decision-support platform with application to dust suppressant selection in open-pit mining	Asieh Hekmat.	Concepcion, Chile
12:45 - 13:05	"Mining for development: multilevel governance and Regenerative mining transitions in Remedios and Segovia”	José Esteban Bello Pedraza.	Medellín, Colombia
13:05 - 14:00	Commercial Exhibition.		
14:00 - 16:00	Lunch – world cup semifinal 2		
16:00 - 16:20	Business conference: Tolima and the New Era of Silver: Opportunity, Innovation, and Development.	Thyana Álvarez Claro Minerales Santa Ana.	Colombia
16:20 - 16:40	Sustainability Challenges in Latin American Mining Projects.	Eduardo Lanao.	Lima, Perú
16:40 - 17:00	Business conference: Drilling with Traceability: Less Risk, Greater Certainty. Traceability to Reduce Deviation, Uncertainty, and Costs.Precision Tools.	José Daniel Becerra Cabrera	Colombia
17:00 - 18:00	Commercial Exhibition.		

16thThursday

Time	Conference	Speakers	Origen
7:45 - 8:00	Welcome		
8:00 - 8:30	Sustainability and the future of the mining industry	Wilfredo López	Medellín, Colombia
8:30 - 8:50	A Systemic Architecture for ESG Data Governance in Mining: Implementing the Sustainability Monitoring and Intelligence Center (CMIS)	Jónnathan Osorio	Medellín, Colombia
8:50 - 9:10	Modeling the Mine Permitting Timeline in the Southwestern United States Under Sociopolitical Uncertainty: A Discrete-Event Simulation Approach	Jesús Castillo Gómez	Tucson, Arizona,USA
9:10 - 9:30	Sustainability in Non-Metallic Mining in La Guajira, Colombia: Performance Analysis of Limestone, Gypsum, Clay, and Salt Operations	Danny Daniel López Juvinao	Riohacha, Colombia
9:30 - 9:50	Use of MSW incineration residues /San Andrés Islas	Oscar Jaime Restrepo.	Medellín, Colombia
9:50 - 10:10	Ecomining: The foundation of a sustainable future.	Jorge Jaramillo.	Medellín, Colombia
10:10-10:30	Social sustainability of digital transformation in mining: a social life cycle assessment framework from the mine.io project	Gian Andrea Blengini.	Turin, Italia
10:30 - 10:50	Promoting gender equity, diversity and inclusion in sustainable mining: perspectives on implementing sustainable mining in african mining environments.	Zinzile Mdluli.	Johannesburg, South Africa
10:50-11:10	Characteristics and coal bed methane (CBM) potencial of Cerrejón formation(Guajira basin,Ccolombia) coals	Iker Senguler.	
11:10-11:30	Mine closure... so that the last phase isn't the final one.	Victor Hugo Rodriguez.	
11:30-12:00	Closing		
	Lunch on your own.		
12:30 -19:00	Technical Field Trip		