

- Reclamation of the Iowa Gulch Tailings Storage Facility, Leadville, Colorado, USA *M Abshire, Engineering Analytics Inc., USA*
- Determining environmental impacts from historical uranium mining operations, including technologically enhanced radioactive material, using multiple lines of evidence and communicating the process and conclusions to the community *K Aiello, Jacobs, USA*
- Creating shared value and positive legacies from a transitional working landscape in Panama *D Anderson, Veragold Mining Company, Australia; D G Foot Jr., T Bonilla, Veragold Mining Company, Panama*
- Multi-dimensional analysis – at a regional scale – as a scoping tool for a socio-technical transition from mining *A Arratia-Solar, The University of Queensland, Australia*
- Lessons learned from 20+ years post-closure monitoring at BHP's legacy mine sites in North America *B Ayres, BHP Legacy Assets, Canada*
- Environmental and health management of mining legacies: A French Experience *P Baranger, C Chapon, M Ferfoglia, M Kimmel, Geoderis, France; G Bellenfant, BRGM, France; N Velly, Ineris, France*
- Estimating controls on future open pit expressed water storage using probabilistic water balance modeling *L Beal, J Sigda, INTERA Inc., USA*
- Post-mining databases and spatialized web applications for public health and safety and controlled land management *M Bennani, Geoderis, France*
- What are we transitioning into? Re-thinking the model of mine closure *G Boggs, T Measham, J D'Urso, CRC TIME, Australia*
- Navigating change: lessons learned from engaging stakeholders regarding the Oyu Tolgoi underground mine subsidence and river diversion project *T Boldbaatar, D Myagmarsuren, QMC LLC, Mongolia*
- Role of mineralogy in mine closure: An overlooked key ingredient *R Bowell, SRK Consulting, UK*
- Determination of groundwater-pit lake interactions, closed Liberty pit, Tonopah, Nevada *R Bowell, SRK Consulting, UK; J V Parshley, A Prestia, SRK Consulting, USA; B Anderson, A Luther, Piteau and Associates, USA; A Carpenter, N Chutas, Pathfinder Minerals, USA*
- Onsite kinetic testing as a key tool for obtaining empirical data to inform closure and mitigation options selection *D Brookshaw, J Dent, Mine Environment Management, UK*
- A framework for managing contaminants at legacy mine sites *A Bruemmer, B Wernick, K Novakowski, WSP, Canada*
- Hydraulic dewatered stacking, the case for closure *M Bruton, WSP, UK; P Newman, Anglo American, UK*
- Repurposing Autodesk Civil 3D grading tools for natural landform closure design *C Buechler, SRK Consulting, USA*
- Cold desert evapotranspiration cover system design *L Bunting, J Keller, M Milczarek, Engineering Analytics Inc., USA; C Jim, K Bansah, Round Mountain Gold Corporation, USA*
- In Defence of NPV *G M Byrn, Niboi Consulting, Australia*
- Closure modeling of the eagle Ni-Cu mine, michigan: Part 1. Hydrogeology and water quality of the underground mine pool *D Castendyk, E Evans, D Banton, WSP, USA; J Nutini, A Young, Eagle Mine LLC, USA*
- The cover layer design based on bauxite residue for ecological restoration: A Nordic climatic zone study case – geochemical phase *T Cerclert, V Savard, J-F Boucher, R Zarrougui, R Chesnaux, Université du Québec à Chicoutimi, Canada; J E Guérin, M-C Simard, M Côté, Rio Tinto, Canada*
- Clean water by design – the impact of landform design on long-term water stewardship *M Clark, M O'Kane, Okane Consultants, Canada; C Pretorius, Ensero Solutions, Canada*
- Integrated water and energy solutions for remote communities in mine closure contexts *C Clerc, The University of Queensland, Australia*
- Developing a national mine closure risk and opportunity atlas for south Africa *M Cole, T Chimbanga, M Esau, A Abrams, J Broadhurst, University of Cape Town, South Africa*
- Minimizing construction uncertainty for an earthen embankment through pilot-scale field compaction trials *N Cristi, S Ananthanarayan, BHP, USA*
- USA. Regulations and state of practice for the closure of tailings dams - an update *P Crouse, Stantec, USA; M Abshire, Engineering Analytics, USA; R Snow, D'Appolonia, USA*
- Efficiency of lignosulfonate dust suppression on unpaved roads: A case study of Oyu Tolgoi mine site *B Dandarmaa, Oyu Tolgoi LLC, Mongolia*
- Geochemical characterisation of surface waters and precipitates in Nenthorn historic gold mine, East Otago, New Zealand *L David, Ok Tedi Mining Limited, Papua New Guinea*
- Mine closure: Towards rehabilitation of post-mined lands for sustainable agricultural production in Kwale county, Kenya *D Doan, Business for Development, Australia; R Okeyo, Kenya, Arbres Biotech*
- Implementing enhanced evaporation on extremely acidic (pH<2) and saline (TDS > 100,000 mg/L) wastewaters at the former Miami Unit and Copper Cities Mines *N Duarte, BHP Legacy Assets, Australia; K Ramsay, T Fick, R Hamill, BHP, USA; J Goodrich, Evaporation Works, USA*
- Rebuilding the Rocky Mountains – a mining company's journey to manage rare ecosystems *C Dubyk, Teck Resources Ltd., Canada*
- Influence of social and environmental factors on mine rehabilitation in Australia and Brazil *J Dunlop, L Nicolson, K Baker, S Wildie, M Clay, J A Purtill, Queensland Mine Rehabilitation Commissioner, Australia; F Perlatti, F Kutchenski, H Pasti, Agência Nacional de Mineração, Brazil*
- Physical, chemical and ecological performance of Syncrude Canada Ltd's Base Mine Lake *A Dunmola, C Wytrykush, D Heisler, A Lanoue, Syncrude Canada Ltd, Canada*
- Mine closure geotechnics of lined tailings ponds – Part 1 *J Ejezie, WSP, USA*
- Closure Cost Estimates - an approach to estimate productivities of main closure activities *M Espezuza, E Vasquez, SRK Consulting, Peru*
- Generation of Heat Maps for the preservation of biological diversity until mine closure, through computer programming *J Espinoza Gastulo, Estudiante, Peru; D Julca, Sustainable Global Engineering (SUGLE S.A.C), Peru*
- Closure modeling of the Eagle Ni-Cu Mine, Michigan: Part 2. Limnology and water quality of the Humboldt tailings disposal facility, a pit lake used for sub-aqueous tailings disposal *E Evans, D Castendyk, R Verburg, WSP, USA; J Nutini, A Matznick, L Cavalieri, Eagle Mine LLC., USA*
- Sustainable finance and the role of mine closure *G Farrer, K Leahy, ERM*
- PFAS – Emerging constituents of concern for mine closure studies *O Félix, C Hoag, SRK Consulting, USA*

- Impacts of former mining sites on the chemical and ecological quality of surface waters : methodological approach at the watershed scale *M Ferfoglia, P Baranger, T Delaunay, L Olivier, Geoderis, France*
- Whole of mine planning – evolution Mount Rawdon case study *A Ferrier, A Forbes, Deswik, Australia*
- Knowing what you don't know. Lessons learned from managing the logistics of mine closure *S-J Finlayson, T Rogers, Turner & Townsend, UK*
- Effective strategies for estimating design growth in mine closure *S-J Finlayson, T Dunow, Turner & Townsend, UK*
- Sustainable electron donor amendments for faster and less expensive mine waste (bio)remediation *K Finneran, Clemson University, Australia*
- Closure disclosure – mine closure planning and reporting through an ESG lens *S Finucane, R Bibby, CDM Smith, Australia*
- Shaping the legacy that Aboriginal Traditional Owners inherit post mining - the importance of tangible outcomes from stakeholder engagement *M Gardner, Karlka Niyiyaparli Aboriginal Corporation, Australia*
- Valorization of mine waste as carbon mineralization feedstock *E Gazzetti, MineraLogic, USA*
- Pursuing a higher standard post-closure *J Gear, Coeur Mining, USA*
- Preparing for closure – adaptive water quality monitoring programs *W Gemson, Hydro Geochem Group Pty Ltd, Australia*
- Challenges implementing governance on existing sites when moving into closure *T Gerritsen, F Maluly-Kameid, L Burger, Rio Tinto, Australia*
- Closure IS change. Change takes time and needs support. It's a smouldering fuse not a 'burning platform' *R Getty, BHP, Australia*
- Implementing a stability monitoring system at a Legacy Mine Site – case study *O Gibbons, A Joaquim, A Hartzenberg, T Coleman, SRK Consulting, Canada*
- Considering natural capital in mining, and implications for mine closure *C Gimber, H Simpson, ERM, Australia*
- Recalibrating financial evaluation to achieve sustainable mining and closure *C Gimber, A Maier, ERM, Australia*
- Meaningful evaluation of rehabilitation and closure in the early stages of the mine life cycle *C Gimber, C Tomlin, ERM, Australia*
- Development and implementation of a state and transition successional model for Ranger Mine closure (Northern Territory, Australia) *C Grant, N Grant, Unearthed Environmental Services Pty Ltd, Australia; M Parry, Energy Resources Australia, Australia*
- Creating value in the post-closure period through collaborative closure planning *G Gregory, D Chubb, R Pedlar-Hobbs, ERM, Canada; J Finisdore, ERM, Australia*
- Trace metal concentrations around mining deposits: pathway to residential environmental media *S Guerin, M Solomon, L Lethielleux, Ineris, France; E-A Oidovdanzan, Oyu Tolgoi LLC, Mongolia*
- Evapotranspiration to minimise acid mine decant from a decommissioned colliery *A Haagner, F van Wyk, Agreenco Environmental, South Africa*
- Developing a site-specific system for the rehabilitation of legacy mine: The Bio+Mine approach *R J Herrington, Natural History Museum, UK*
- Using uncertainty analysis to unravel cost risks for nuclear and mine site closure *P Hesketh, S Tillotson, ERM, UK; R Watts, Taw Associates, UK*
- Community engagement and master planning to develop a road map for a Just Transition for coalfield communities in Western Ukraine *P Hesketh, V Griffiths, A Ma, ERM, UK; E Kiviet, Arup, UK*
- Lessons from the evolution of the Welsh coalfield regeneration program *P Hesketh, G Bowden, ERM, UK; S Smith, Strategic Land Management, UK*
- Erosion model validation using data from twelve arid-zone landforms *E Howard, Landloch, Australia*
- Estimating baseline conditions for mine closure *T Jackson, G Zhan, Barrick Gold, USA*
- Calibrating hydrologic watershed parameters for coarse rock cover applications in mine closure – case study *K Kammerzell, J Erickson, A Colburn, D Brophy, Stantec, USA*
- What can we learn from the process safety journey to improve our understanding of the closure challenge and cost estimate? *J Keneally, Rio Tinto, Australia*
- Mechanochemical synthesis of the copper autunites – a new route to remediation of potentially toxic elements *C Kirk, L Wu, University of Edinburgh, UK*
- New opportunities for collaborative closure planning in Canadian regulatory frameworks *T Kuzyk, G Gregory, R Pedlar-Hobbs, ERM, Canada*
- Evolution of closure planning for an inactive tailings facility *S Laberge, Barr Engineering Co., Canada; D Kolstad, B Dehler, A Kalmes, Barr Engineering Co., USA*
- Forecast and mitigation of the pressure build-up in a depleted mine gas reservoir: a case study in the Nord-Pas-de-Calais coal basin (France) *S Lafortune, A Gouzy, Ineris, France; I Vuidart, Geoderis, France*
- Mount Rawdon operation landform and water quality closure tool: Part 2 *M Landers, G Maddocks, P Long, RGS Environmental Consultants, Australia; P Nalecki, Energy & Water Pty Ltd, Australia*
- So you think you're ready? An overview of Rio Tinto's Closure Readiness approach *C Latham, Rio Tinto, Australia*
- Invasive and non-native species usage in bauxite residue remediation *D Leclerc, Rio Tinto, Canada*
- Urcuit solution-mining site (France): an example of global process of technical and administrative mine closure *A Lecomte, A Charmoille, F Laouafa, S Rupasinghe, P Gombert, Ineris, France*
- Novel approaches of geotechnical investigation for mine closure projects *C Lee, D Deamude, SRK Consulting, Canada*
- A review of methods to calculate current and future evaporation rates from pit lakes with high concentrations of total dissolved solids *J Lindauer, D Castendyk, S Byers, WSP, USA; B Moravec, BHP Legacy Assets, USA*
- Mine closure starting together with business analysis *E Lopes, Federal University of Lavras/Progen S.A, Brazil; P Liberal, F Elian, Progen S.A, Brazil; K Pulino, A L Queiroz, T Castilho, G Vieira, P Ribeiro, B Dutra, Vale S.A, Brazil*
- Design and regulatory approval of a novel in-situ salt cap for final closure of contaminated wastewater ponds at a brine mining operation *K Lundmark, D Abranovic, ERM, USA*
- Big Ledge Mine: A complex closure in progress *C Macmillan, NOV Inc., USA*

- The benefits and opportunities realized through an integrated and transparent closure cost model *T Mandziak, J S Collyard, B Subrahmanyam, SLR International Corp., USA*
- Ecosystem kaleidoscope – tailings restoration with 'a coat of many colours' *J Mantey, Gold Fields, Ghana*
- The challenges of reusing spent heap leach pad material, the case of Tarkwa gold mine *J Mantey, Gold Fields, Ghana*
- Backfill design: Constructability and geochemistry modelling *C Marambio, SRK Consulting, Chile; O Benavente, SRK Consulting, USA*
- Nova Vila Project: combining ESG principles to promote sustainable future use for a century-old gold mine in Brazil *F Martins Guabiroba, M Morais, L Dias Amorim, F Claudio, E Trindade, AngloGold Ashanti, Brazil*
- Post-mining risk management in France and multi-hazard approaches *M Marwan AL Heib, National Institute for the Industrial Environment and Risks, France*
- Metalliferous mine closure geochemical risk planning and validation template *P McCann, S Pearce, D Brookshaw, Mine Environment Management*
- The ridgeway TMF cover system after 20 years of atmospheric forcing, what we knew then and now *G Meiers, WSP, Canada; Z Kenyon, P Buttsavage, Rio Tinto, USA*
- In mine rock storage facility design advective oxygen transport is king, but don't forget about the queen, diffusion *G Meiers, WSP, Canada*
- Sustainable post-closure groundwater management concepts and enhanced environmental outcomes for longwall mining *C Meikle, SLR Consulting, Australia*
- Returning land use plans – a common ground approach *N Melaschenko, Integral Ecology Group Ltd. Canada*
- Flow and transport in novel subsurface flow systems *M Milczarek, J Keller, T-M Yao, GeoSystems Analysis Inc., USA*
- Impacts of soil amendments on store and release mine cover systems: Improved vegetation establishment and enhanced evapotranspiration *C Millar, MOST Facility, Canada; L Doucette, Okane Consultants, Canada; M Robeson, D Sump, Profile Products, USA; J J McDonnell, GIWS-MOST USASK, USA*
- Innovative techniques in subsurface characterization and hazard assessment of tailing embankments: A case study of an aging tailing storage embankment *M Mirzanejad, L Steele, D Longwell, J Nuttal, Tetra Tech, USA*
- A novel modeling approach coupling post-closure tailings storage facilities draindown and water balance simulations *I Miskolczi, Geosystems Analysis, Canada; G Zhan, Barrick Gold, USA; J Keller, Geosystems Analysis, USA*
- Delivering integrated systems for closure planning, execution, monitoring, and reporting – using technology to improve rehabilitation and closure processes *W Mitry, IEMA, Australia*
- Cumulative impact assessment in a mine closure context *A Moran, ENGIE Australia & New Zealand, Australia; E Heffernan, J Broadway, King & Wood Mallesons, Australia*
- Clinton Creek abandoned mine/interim spillway reclamation project – status of the channel restoration effort *K Myers, The MINES Group Inc./Geo-Logic Associates, USA; M Nahir, Parsons Inc., Canada; C Gillis, Yukon Government, Abandoned Mine Division, Canada; J Shaw, Parsons Inc., USA*
- The new ISO standard for mine closure and reclamation planning *M Nahir, Parsons Inc., Canada; D Van Zyl, University of British Columbia, Canada; I Hutchison, Hutchison Engineering, USA*
- The PGM tailing remedy for potential economic end-use *H Ndonga, University of Johannesburg, South Africa*
- Good GIS functionality and practices in mine closure planning *A Neubauer, Klohn Crippen Berger Ltd., Australia*
- From coal mine to sanitary landfill: The rehabilitation of Recreio Mine in Buti, Brazil *A Pires, C Weber, Copelmi Mining, Brazil; F Hartmann, HAR - Engineering and Environment, Brazil*
- Development of a site-specific, relative hazard prioritization tool at a legacy mine site in British Columbia *J Nikl, J Simzer, D Kennard, WSP, Canada; M Slater, Teck Resources Ltd., Canada*
- Review of mine closure planning, processes and a post-closure strategy at Tshikondeni coal mine in Limpopo Province, South Africa *N Nxumalo, University of the Witwatersrand, South Africa*
- Organised Communities - a driver to engaging communities, value creation and socio-centric approach mine closure in mining projects: A case of Royal Bafokeng Nation (RBN) *N Nxumalo, University of the Witwatersrand, South Africa*
- Comparison of post-closure regulatory frameworks in Australia and South American countries *B Osses, C Marambio, SRK Consulting, Chile*
- Socioeconomic transitioning: Do we really understand what it takes? *J V Parshley, SRK Consulting, USA; H Van Vlaenderen, Vukani Social and Environmental Consulting, France*
- Laboratory test for confirmation of natural attenuation at the Mineral Park mine, AZ *T Patterson, T Tesfay, SLR Consulting Ltd, USA*
- Transforming Ranger's TSF to a process water storage facility *S Paulka, D Staggs, Energy Resources of Australia, Australia; G Ralls, Tetra Tech Coffey Pty Ltd, Australia*
- Legacy coal mines in Southern Brazil: Actions from National Mining Agency of Brazil - ANM to promote the fair mine closure and its transitions *F Perlatti, F Kutchenski, H Pasti, C Silva, O Lamarque, National Mining Agency of Brazil - ANM, Brazil*
- Presentation of the conceptual project of the mine closure plan of the tailings disposal program in Timbopeba *T Pires, M Alves, D Paula, Vale S.A, Brazil; F Santos, Mineração Morro do Ipê, Brazil*
- Metal attenuation case studies in Nevada *A Prestia, SRK Consulting, USA; R Bowell, SRK Consulting, UK*
- Cold Joints and Hot Pours in the Arctic: design; implementation; and post construction investigation of a remotely placed SCC sill pillar *R Preston, A Pakula, M Pak, D Kennard, WSP, Canada*
- A review of the DUB-GEM project and the applicability of the drone based gamma spectrometry in mine closure processes *B Preugschat, BGR, Germany*
- Water treatment using the antiscalant and corrosion inhibitors in water circuit of concentrator, Oyu Tolgoi Copper Mining in South Gobi Region, Mongolia *T Puntsag, Oyu Tolgoi LLC, Mongolia; M Gilpin, Hydrex Technologies and Marketing, USA*

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- Evaluating the contribution of integrated mine closure and post-closure in realising community orientated sustainable development goals N Ruswa, South Africa
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Radium-226 treatment at decommissioned uranium mine tailings management areas twenty years later – emerging challenges with improving water quality *C Wiramanaden, B Barnhart T Nash, J Tester, Minnow Aquatic Environmental Services, Canada; H Heffner, BHP, Canada*

Advanced acid mine water remediation *L Wood, Avid Water Technology, USA*

Analysis of space resources characteristics and paths repurposing of mine closure in China *F Xiaotong, China University of Mining and Technology, Australia, J Dong, H Zhang, China University of Mining and Technology, China; L Wang, China Coal Society, China; T Kienberger, Montanuniversitaet Leoben, Austria*

Conversion of an evapotranspiration soil cover to a geosynthetic cover for waste rock facility closure *P Yuan, Wood, USA; G Zhan, Barrick Gold, USA; A Jones, Nevada Gold Mines LLC, USA; R Hufford, WSP, USA*

Exploring the paths of ecological transformation of mining wastelands under the market+ model: A case study of the remediation of Lingshan mining wasteland in Jiangxia district, Wuhan, China *Y Zhu, J Zhou, D Su, H Feng, C Feng, Q Hou, China University of Geosciences, China*

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