SDIMI 2019 CONTENTS

Keynotes	
How inter-sectoral power relations change the meaning of the social license R G Boutilier	2
The devolution of the social licence to operate in the Australian mining industry D Laurence	4
An interrogation of the approach to social licence to operate on the African continent H K Musiyarira, P R Shava and G Dzinomwa	6
Social license to operate within Southeast Asia N Nguyen	8
The social license to operate: adoption and application in the mining sector, 1997–2017 I Thomson	10
Social license from a European perspective M Tost, P Lesser, K Gugerell and M Hitch	12
Connecting critical raw materials with future societal demands	
Critical minerals: a review assessing risks related to mineral resource availability K Koitsiwe and Z B Bagai	16
Changing local and global impacts of critical minerals supply for the clean energy transition B C McLellan, E Yamasue, A C Chapman and D P Giurco	18
Reconnecting raw materials with society: a case study for the Lignite mines in north-western Greece C Rodolaki and A G Triantafyllou	20
Tantalum mining in Africa's Great Lakes region: a case study for sustainable economic development? P Schütte, U Näher and M Liebetrau	23
Corporate social responsibility	
Assessing and improving the sustainability performance of mining industries K Angelakoglou, G Gaidajis and A Garidi	27
Dynamics of corporate social responsibility: a theoretical perspective <i>C Chen, Z Li and J Li</i>	29
How should we make decisions and prioritize environmental sustainability in the Canadian North? B C Collins and M Kumral	36
Demonstrating local excellence by positioning business performance in a global sustainable development context S H du Plooy and T Larnach	39
Can mineral exploration companies create and share value with local communities? The case of Erdene Resource Development Corporation in Mongolia J Fraser, B Batdorj and N C Kunz	42
Why a responsible coal mining supply chain matters in a decarbonizing world A-C Howard	45

Social responsibility in geoscience and mining education M B Katz	48
Role of mining companies in contributing to sustainable development goals H K Musiyarira, G Dzinomwa, G Schneider and L Davidson	51
Public-private-partnership in practice of extractive industry: contributing to sustainable development goals – a case of Nui Phao project – Viet Nam N Nguyen and B Dinh	54
Impact of mining activities on the achievement of sustainable development goals A Omotehinse and G De Tomi	58
Post-mining land uses	
Approaches for social license to remine in post-mining societies A Binder, S Nowosad and O Langefeld	62
Can the circular economy help embed social licence in the minerals industry? G D Corder	65
A social licence to close: engaging stakeholders in agreeing post-mining land uses J Everingham, J Rolfe, A M Lechner, S Kinnear and D Akbar	68
Thinking beyond closure: toward a mine closure database K Svobodova, A Littleboy, J Owen, M Edraki and R Higgins	72
Social licence to operate in the overall mining value chain	
Implementation of social license to operate into early evaluation stages of potential mining projects G Barakos and H Mischo	75
The social license to operate in the extractive industries: an international law perspective <i>M M Barnes</i>	78
Policy drivers and barriers for sustainable mining innovations in the EU: a case study analysis A Endl, M Tost, P Moser, G Berger, S L Gottenhuber, M Taxiarchou, E Tsertou, L Pinheiro, F Cardoso Martins, J Rosenkranz and J Frishammar	82
A theoretical holistic risk management model for mining operations S Kamenopoulos and Z Agioutantis	85
Promoting the social license to operate through integrating social and environmental aspects in criticality assessments K Kühnel, P Schütte, V Bach, G Franken, U Dorner and M Finkbeiner	89
Social licence to operate: laws and policies	
The social licence pathway – towards a collaborative planning and approval process for the digital age J C Castilla-Rho, P Dupen, D Kennewell and R L Nelson	94
Off-Earth mining in the context of sustainable development J A Dallas, S Raval and S Saydam	99
Large-scale mining in Luzon: assessment of the impact and sustainability of the mandated corporate social responsibility practices for their host communities J O Raborar and E O Recio	101
Sustainable mining practices in some mining regions of India G Singh	104

The role of technology in enhancing sustainability outcomes

Energy portfolio versus sustainability of mining industry D Baidya, S A Ghoreishi-Madiseh and M Scoble	107
Digital work preparation tool for sub-surface construction work in mines – an approach to optimisation J Herhold, H Mischo and S Plaum	110
Complex orebodies: the role of social and environmental complexities in current mine projects development E Lebre, R K Valenta, D Kemp, J R Owen and G D Corder	114
Establishment of an early warning model for mine waste dump failure induced by rainfall <i>H Qin, H Ma and Z Yu</i>	118
China's spatial and temporal disparities in energy efficiency and influencing factors L S Shao and S Q Zhao	121
Optimise payload and increase trucking factors with volume scanning C West, M Gouldstone and G Selth	123
Understanding social licence complexities	
Estimating the value of benefits in benefit-sharing agreements <i>E Adebayo and E Werker</i>	126
Too much of a good thing? Can a strong social licence leave communities in tears? L D Black and R G Boutilier	129
Dimensions of the coltan and cobalt resource curse in the Democratic Republic of Congo B Elisee Isheloke and H von Blottnitz	131
Benefit-sharing mechanisms in developed mining countries: a literature review A Garidi and G Gaidajis	134
Methods of obtaining social acceptance for mining activities Z Łacny	139
Interrogating the legitimacy to enter into a social licence: a community perspective N Nyembo and Z Lees	141
Social licence or social science? Perspectives on social impact assessment R Parsons, R Lawrence, H Luke and J Vozoff	143
Bad apples and careless workers – notions of risk in corruption reform A.I.Shaw	145