Day 1 — Thursday 4 July 2019

Session 1 — Industry 4.0 and the creativity imperative – driving environmental Performance
@ The Verge
J. Courtnage, Deliberate Futures, South Africa

Current requirements for the future- and smart-connected mine
J.-J. Verhaeghe, Mandela Mining Precinct, South Africa

4th Industrial Revolution: lessons for Emalahleni from Welkom
J. Limpitlaw and C. Mallinson, University of the Witwatersrand, South Africa

Mining-impacted water as a valuable resource: technologies for values recovery
J. Burgess, Isle Utilities, South Africa

Session 2 — Modernizing the minerals sector to embrace values, people and the environment (WEF Theme) without sacrificing efficiency and production

Economic Complexity and Succession Planning in the SA mining industry
M. Solomon, University of Cape Town, South Africa

The fit and misfit between Mining 4.0 and Sustainable Development
M. Hermanus, University of the Witwatersrand, South Africa

Mining at the crossroads: Sectoral diversification to safeguard sustainable mining?
W. de Lange, B. de Wet, L. Haywood, W. Stafford, C. Musvoto, and I. Watson, CSIR, University of the Witwatersrand, South Africa

Panel Discussion 1 — Social Challenges
Facilitator: P. Kapelus, South Africa

Day 2 — Friday 5 July 2019

Session 3 — Mining and poverty – increasing importance of offsets

Mining and processing of ornamental stones in context of job creation in rural South Africa
E.Y. Fontama and A.F. Mulaba, University of Johannesburg, South Africa

Is successful resettlement possible with such divergent lender, private sector and community demands and expectations?
A. Hart, Sustainable Futures (Pty) Ltd, South Africa

The role of innovation in the conversion of Invasive Alien Plant biomass into products for rehabilitating mining land while restoring livelihoods
G. Barnes, Department of Environmental Affairs, South Africa

Session 4 — Mining without biodiversity loss

The Biodiversity Protocol
J. Houdet, Biodiversity Disclosure Project, South Africa

Session 5 — Social and environmental performance as a value driver, not a cost centre

Community development agreement and its applicability to Finnish Mining Context
J.M. Kotilainen, University of Eastern Finland, Finland

Importance of competent assessment of and reporting on socio-environmental liability
T. Steele-Schober, Uvuna Sustainability, South Africa

Development of the Socio-Economic Technology Initiative (SETI) platform to create a commonly recognised evidence base that can be used as a basis for better development planning
T. Cooper, Mining Dialogues 360, South Africa

Panel Discussion 2 — Environmental Challenges
Moderator: J. Courtnage