AMI Precious Metals 2017 Preliminary Programme · 17–19 October 2017

Conference Day 1-Wednesday, 18 October 2017		Conference Day 2-Thursday, 19 October 2017	
07:30-08:30	Registration and early morning refreshments	07:30-08:30	Registration & early morning refreshments
08:30-08:35	Emergency and safety procedures	08:30-08:35	Emergency and safety procedures
08:35–08:45	Welcome Address G.L. Smith, Conference Chairperson	08:35–08:45	Welcome address G.L. Smith, Conference Chairperson
08:45–08:55	Opening Address S. Ndlovu, <i>SAIMM President</i>	08:45–09:25	Keynote Address: The road to lower emission D. Jolie, Anglo American
08:55–09:35	Keynote Address: How to make SA mining business globally attractive again? F. Fourie, <i>Anglo Platinum</i>	09:25–10:05	Keynote Address: The Platreef Project, A platinum mine game changer G. Mouton, <i>Ivanplats</i>
09:35–10:00	SAMMRI: Working towards sustainability V. Ross, <i>SAMMRI Board</i>	10:05–10:15	Sponsor Presentation RHI, AG
10:00–10:25	Can research, development and innovation extend the life of the PGM mining industry? S.M. Rupprecht, <i>University of Johannesburg, South</i>	10:15–10:25	Sponsor Presentation Sandvik
	Africa	10:25–10:50	Mid-morning Refreshments
10:25–10:35	Sponsor Presentation BME	10:50–11:30	Keynote Address: TBC P. Ngoepe, <i>University of Limpopo, South Africa</i>
10:35-11:00	Mid-morning Refreshments	11:30–11:50	The effect of water of on benzyl alcohol oxidation
11:00–11:40	Keynote Address: PGMs recovery in China W. Haibei, <i>BGRIMM</i>		reaction over Pt/TiO ₂ A. Kunene and E. van Steen, <i>University of Cape Town,</i> South Africa
11:40–12:20	Keynote Address: PGMs: A cornucopia of possible applications L.A. Cornish, †University of the Witwatersrand, South Africa, African Materials Science and Engineering Network (AMSEN), DST-NRF Centre of Excellence in Strong Materials, hosted by University of the Witwatersrand, South Africa	11:50–12:10 12:10–13:10 13:10–13:30	A deeper probe at strong electrostatic adsorption to deposit platinum onto Co ₃ O ₄ /SiO ₂ S. Govender and E. van Steen, <i>University of Cape Town, South Africa</i> Lunch Metal and alloy spheroidization using high-
12:20–12:40	The effect of Mo incorporation on the CO oxidation activity of ceria and ceria-palladium solution combustion synthesized catalysts S. Naidoo, S. Singh and H.B. Friedrich, <i>University of</i>		temperature radio-frequency plasmas H. Bissett and I.J. Van der Walt, <i>The South African Nuclear Energy Corporation SOC Ltd. (Necsa), South Africa</i>
12:40- 13:40	KwaZulu-Natal, South Africa Lunch	13:30–13:50	Co oxidation over Au-Pd doped graphene: A first
13:40–14:00	Computational modelling of Ti ₅₀ Pt _{50-x} M _x (M: Ni, Ir, Pd) shape memory alloys		principles study T.A. Ntho, <i>Minek, South Africa</i>
	R. Modiba, H.R. Chauke and P.E. Ngoepe, <i>University of Limpopo, South Africa,</i>	13:50–14:10	Pd/MgTi/rGO nanocomposite materials for hydrogen storage: Synthesis, characterisation and application J. Baloyi and T.A. Ntho, <i>Minek, South Africa</i>
14:00–14:20	Pd _{0.02} Ce _{0.98} O _{2-δ} : A copper- and ligand-free quasi- heterogeneous catalyst for aquacatalytic Sonogashira cross-coupling reactions P.P. Moungose, N.L. Sehloko, T. Cwele.	14:10–14:30	Gold/Titania nanostructure on a honeycomb monolith for CO oxidation reaction S. Mavuso and T.A. Ntho, <i>Mintek, South Africa</i>
	G.E. Maguire and H.B. Friedrich, <i>University of</i> KwaZulu-Natal, South Africa	14:30–14:50	A comparative study of hardness of Pt-Cr-V and Pt- Al-V alloys in the as-cast condition and annealed
14:20–14:40	First-principles study of phase stability, elastic and electronic properties of Ti-Al-Ir alloys R.G. Diale, H.R. Chauke and P.E. Ngoepe, <i>University of Limpopo, South Africa</i>		B.O. Odera* and L.A. Cornish [†] , *Cape Peninsula University of Technology, Cape Town, [†] University of the Witwatersrand, South Africa, African Materials Science and Engineering Network (AMSEN), DST-NRF Centre
			of Excellence in Strong Materials, hosted by University
15:00–15:20	alloys M.P. Mashamaite, H.R. Chauke and P.E. Ngoepe,	14:50–15:10	Plasmonic catalysts for energy conversion and environmental protection
15:20–15:40	First-principles studies of Fe-Al-X (X=Pt, Ru) alloys C.S. Mkhonto, H.R. Chauke and P.E. Ngoepe, University of Limpopo, South Africa	15:30–15:50	Alternative carbon materials as practical and more durable fuel cell electrocatalyst supports than conventional carbon blacks M.L. Stevenson and G. Pattrick, HySA/Catalysis, South African Council for Mineral Technology, Mintek, South Africa
15:40–16:00	Solar Photocatalytic Hydrogen Production from Glycerol Reforming using Ternary Pt/TiO ₂ /Graphene T.W.P. Seadira, G. Sadanandam, T. Ntho,	15.50	
40.05	C.M. Masuku and M.S. Scurrell, <i>University of South Africa, South Africa</i>	าอ.อบ	Comercine Ciose
14:20–14:40 14:40–15:00 15:00–15:20 15:20–15:40	heterogeneous catalyst for aquacatalytic Sonogashira cross-coupling reactions P.P. Mpungose, N.I. Sehloko, T. Cwele, G.E. Maguire and H.B. Friedrich, University of KwaZulu-Natal, South Africa First-principles study of phase stability, elastic and electronic properties of Ti-Al-Ir alloys R.G. Diale, H.R. Chauke and P.E. Ngoepe, University of Limpopo, South Africa Afternoon Refreshments B2 and B19 TiPtZr high temperature shape memory alloys M.P. Mashamaite, H.R. Chauke and P.E. Ngoepe, University of Limpopo, South Africa First-principles studies of Fe-Al-X (X=Pt, Ru) alloys C.S. Mkhonto, H.R. Chauke and P.E. Ngoepe, University of Limpopo, South Africa Solar Photocatalytic Hydrogen Production from Glycerol Reforming using Ternary Pt/TiO ₂ /Graphene T.W.P. Seadira, G. Sadanandam, T. Ntho, C.M. Masuku and M.S. Scurrell, University of South	14:10–14:30 14:30–14:50 14:50–15:10	hydrogen storage: Synthesis, characterisation an application J. Baloyi and T.A. Ntho, <i>Minek, South Africa</i> Gold/Titania nanostructure on a honeycomb monolith for CO oxidation reaction S. Mavuso and T.A. Ntho, <i>Mintek, South Africa</i> A comparative study of hardness of Pt-Cr-V and FAI-V alloys in the as-cast condition and annealed condition B.O. Odera* and L.A. Cornish [†] , *Cape Peninsula University of Technology, Cape Town, †University of twitwatersrand, South Africa, African Materials Science and Engineering Network (AMSEN), DST-NRF Centr of Excellence in Strong Materials, hosted by University of the Witwatersrand, South Africa Plasmonic catalysts for energy conversion and environmental protection M.S. Scurrell, University of South Africa, South Africa Alternative carbon materials as practical and mor durable fuel cell electrocatalyst supports than conventional carbon blacks M.L. Stevenson and G. Pattrick, HySA/Catalysis, South African Council for Mineral Technology, Mintek, South

16:00

Day 1 Conference Close