

			Monday, 07-10-2019			
08:30-10:00	08:30	10:00	Plenary Session			
	10:00	10:30	Morning refreshments sponsored by SkyTEM			
			Breakaway room A		Breakaway room B	
10:30 - 12:45	10:30	11:05	Theme : Seismic Keynote Speaker : Bojan Brodic 2019-034: Evaluation of signal properties of a prototype electromagnetic vibrator using MEMS-based landstreamer and wireless seismic recorders	Theme : Magnetotellurics Keynote speaker : Alan Jones 2019-050: Magnetotellurics: The scalable EM imaging method	Theme : Earthquake Seismology Keynote speaker : Vunganai Midzi 2019-002:Improved Monitoring of Seismicity in the Gold Mining Regions of South Africa: New Velocity Models	
	11:05	11:25	2019-037 Impofana Sihoyiya: 2D seismic denoising using curvelet analysis: Case study from the western margin of the Kaapvaal craton, South Africa	2019-019 Vickie Tschirhart: Preliminary modelling of MT data in the Patterson Lake corridor, Saskatchewan, Canada	2019-043 Dakalo Ligaraba: Gutenberg-Richter b-value Analysis of Overlapping Seismic Clusters	
	11:25	11:45	2019-033 Evert Slob: Elimination of multiples from acoustic reflection data	2019-081 David Ngobeni : Mapping deeply buried Whitehill Formation using broadband magnetotellurics near Beaufort West	2019-054 Tebogo Pule: The macroseismic survey of the M4.6, 2017 Stilfontein earthquake	
	11:45	12:05	2019-103 Sbonele Ngongo: Constrained Least Squares Analysis (CLSSA) as a Spectral Decomposition Method	2019-101 Wesley Harrison: Geophysical Investigation of Lithological Groundwater Control on the Waterboerskraal Farm in the Semi-Arid Swartland Terrane, South Africa	2019-057 Thifhelimbilu Mulabisana: Seismotectonics and seismic history of the Koffiefontein region	
	12:05	12:25	2019-110 Bojan Brodic: Methodologies for engineering seismology site characterization: three-component digital-based seismic landstreamer and beyond	2019-049 Alan Jones: Geochemical inferences about the lithospheric mantle drawn from thermo-chemical, petrologically-consistent inversion of geophysical data	2019-114 Mustapha Meghraoui: The Challenge of a Seismotectonic Map for Africa: Progress and limitations	
	12:25	12:45		2019-011 Magdel Combrinck: Augmenting 1D conductivity depth sections to include information pertaining to 2D/3D conductors	2019-093 Fenitra Andriampenomanan: New Estimates of Seismic Anisotropy in eastern Africa from Shear Wave Splitting Measurements	
	12:45	13:45	Lunch Q and A session with CGS CEO - Lunch sponsored by SkyTEM			

13:45 - 15:20	13:45	14:20	Theme : Interpretation Keynote speaker : Michiel De Wit 2019-076: Removing the cover of Ngamiland, Botswana.	Theme : Brownfields Exploration Keynote speaker : Lynette Kirkpatrick 2019-042: Between a rock and a hard place: how geological framework dictates the diamond placer grade of southern Namibia.	Theme : Seismic Keynote Speaker : Alireza Melehir 2019-108: Smart Exploration: From legacy data to state-of-the-art data acquisition and imaging	
	14:20	14:40	2019-056 Jörg Ebbing: Combining satellite and aeromagnetic data for estimating lithospheric magnetisation	2019-012 Flemming Effersø: VMS and Ni-Cu exploration using an integrated geophysical and drilling method	2019-015 Gilles Bellefleur: Enhanced Seismic Reflectivity of Metamorphosed Hydrothermal Alteration: a Case Study from the Lalor VMS Deposit, Canada	
	14:40	15:00	2019-036 Mawande Ncume: A structural re-interpretation of the Bumbeni Volcanic Complex northern KwaZulu-Natal: Insights from high resolution aeromagnetics and field mapping	2019-089 Karl Kwan: Targeting Archean greenstone-hosted lode gold mineralization in Ontario Canada through helicopter TDEM data	2019-010 Kenneth Rapetsoa: Comparison of seismic sources for near surface seismic surveys	
	15:00	15:20	2019-039 Greg Botha: Re-interpretation of the Cenozoic lithostratigraphy of the Maputaland coastal plain: integration of field mapping and high resolution airborne radiometrics.	2019-095 Catherine Truffert: Benefits of new equipment's and inversion code for full- 3D DC resistivity and IP surveys: example from South-America	2019-099 Michael Westgate: Reassessment of Legacy 2D Seismic Reflection Data from the Kaapvaal Craton using Unconventional Methods: Preliminary Results	
15:20 - 15:40 Afternoon Refreshments sponsored by SkyTEM						
15:40 - 17:15	15:40	16:15	Theme : Artificial Intelligence Keynote speaker : Stephen Reford 2019-085: Machine learning for surficial geological mapping – Examples from Africa	Theme : Radiometrics Keynote Speaker : Henk Coetzee 2019-079: Imaging the Anthropocene: Conceptual models in environmental radiometric surveying	Theme : Seismic Keynote speaker : Peter Dekker 2019-008: How current insights advance historic technology to aid future understanding	
	16:15	16:35	2019-1090 Jean Legault: Mineralization Targeting Using TensorFlow (Google) DNN	2019-017 Steven van der Veeke: Drone borne gamma-ray spectrometry: a mature technique for mineral mapping	2019-104 Nandipha Masondo: Deformation in the basement of the Kalahari-Karoo Basin, Botswana, using 2D seismics.	
	16:35	16:55	2019-1001 Jennifer Fohring: Aquifer prospectivity mapping through deep learning	2019-052 Simeon Shilamba: Preliminary interpretation of high resolution airborne magnetic and radiometric data, western part of Hakos survey area	2019-062 Reece van Buren: From Camp to Mine: Multi-Scale Hard-Rock Seismic Imaging	
	16:55	17:15	2019-1029 Robert Wilson: Exploration and Targeting of Gold Mineralization in Burkina Faso using Airborne Geophysics	2019-083 Samuel Nengola: Preliminary interpretation of the magnetic data in Dordabis district and correlation with various mineral potential, Khomas Region, Namibia		
	17:30	18:30	Cocktail hour and Poster session			
	19:00	-	FutureFocus Networking Dinner Sponsored by Anglo American			

14:00 - 15:35	14:00	14:35	Theme : AEM Keynote speaker : Andrea Viezzoli 2019-063: IP effects demand rethinking the time-depth relationship and sensitivity in TDEM measurements	Theme : Data Processing Keynote speaker : Gordon Cooper 2019-006: Terracing Geophysical Data Using its Shape	Theme : Earthquake Seismology Keynote speaker : Ray Durrheim 2019-075 :	
	14:35	14:55	2019-078 Evgeny Karshakov: Overcoming Airborne IP in Frequency Domain: Hopes and Disappointments	2019-035 Olivier Delage: Multi-scale variability analysis of time series in Geophysics by using the empirical mode decomposition	2019-073 Tsiriandrimanana Rakotondraibe: Seismic Hazard in Madagascar	
	14:55	15:15	2019-092 Nadine Veillette: Advances in Induced Polarization: Increasing the Depth of Investigation with High Resolution	2019-051 Alan Jones: Beyond chi-squared	2019-003 Brassnavy Manzunu: Determination of shallow shear wave velocity profiles in Johannesburg for Vs30 classification	
	15:15	15:35	2019-112 James Macnae: Geological interpretation of near-surface IP and SPM effects in AEM data.		2019-094 Ranto Raveloson: Ambient noise tomography of the Bushveld Complex	
	15:35	15:50	Afternoon Refreshments			
15:50-17:05	15:50	16:25	Theme : Airborne Geophysics Developments Keynote speaker : Dan DiFrancesco 2019-111: 21st Century Exploration: From the Present to the Future	Theme : Artificial Intelligence Keynote : Desmond Fitzgerald 2019-023: Artificial Intelligence Techniques to the Interpretation of Geophysical Measurements	Theme : Earthquake Seismology Keynote speaker : Martin Brandt 2019-004: The South African National Seismograph Network: Magnitude completeness and research activities	
	16:25	16:45	2019-107 Chris Van Galder: Wide bandwidth gravity – combining vertical gravity from AG and AGG systems	2019-025 David Pratt: Using AI with the magnetic gradient tensor to map basement	2019-041 Sinovuyo Myendeki: Identification of seismogenic structures in Witwatersrand Basin, South Africa	
	16:45	17:05	2019-021 Alexander Prikhodko: AFMAG Evolution - Expanding Limits	2019-026 David Pratt: AI and the magnetic tensor for quick depth estimation	2019-045 Bufelo Lushetile: Evidence of underground water extraction as trigger mechanism of the Anker seismicity	
	17:05	17:30	Gala Preps and Freshen up			
	17:30	18:30	Travel to dinner venue			
	19:00	-	Gala Dinner Sponsored by Lockheed Martin			

Wednesday, 09-10-2019													
			Breakaway room A			Breakaway room B			Breakaway room C				
08:30 - 10:05	08:30	09:05	Theme : Seismic Interpretation Keynote speaker : Nigel Hicks 2019-030: Re-interpretations of legacy 2D seismic, well and aeromagnetic data: Implications for basin characterisation of a proposed CCS site - the South African Pilot CO2 Storage Project.			Theme : Oil and Gas Keynote : Sean Davids 2019-109: Petroleum Agency SA - current informing the future...			Theme : Brownfields Exploration Keynote speaker : Gavin Selfe 2019-014: DHEM at Las Cruces, Spain - Successes and Failures				
	09:05	09:25	2019-031	Khumo Leseane: Cryptic crustal Scale "Transverse Structure" within the Orogenic Belt			PANEL DISCUSSION	OIL AND GAS INDUSTRY - CURRENT INFORMING THE FUTURE			2019-067	Bill Morris: Magnetic Susceptibility: Measured, calculated, inverted, and projected	
	09:25	09:45	2019-096	Chris Samakinde: Seismic Stratigraphic Study of the Passive Margin Deposits of the Northern Orange Basin, South Africa				Jean Legault: The Borden Gold Deposit, northern Ontario: Contributions of VTEM helicopter time-domain EM and Magnetics Leading to Discovery			2019-087	Jean Legault: The Borden Gold Deposit, northern Ontario: Contributions of VTEM helicopter time-domain EM and Magnetics Leading to Discovery	
	09:45	10:05	2019-070	Stephanie Enslin: Uncovering the Southern (Bethal) Lobe of the Bushveld Complex, South Africa				Mehrdad Bastani: 3D magnetic susceptibility model of a deep iron-oxide apatite-bearing orebody incorporating borehole data in Blötberget, Sweden			2019-046	Mehrdad Bastani: 3D magnetic susceptibility model of a deep iron-oxide apatite-bearing orebody incorporating borehole data in Blötberget, Sweden	
10:05		10:30	Morning refreshments										
10:30 - 13:05	10:30	11:45	Theme : Multidisciplinary Keynote speaker : Stoffel Fourie 2019-074: The important role of Geophysics in decision making during large infrastructure projects			Theme : Ground Water Applications Keynote speaker : Jean Legault 2019-088: Further Characterization of the Spiritwood Valley Aquifer in North Dakota using Helicopter Time Domain Electromagnetics			Theme : Data Mining/Research Keynote speaker: Emmanuel Sakala 2019-080: Application of data mining and knowledge discovery process to extract valuable knowledge from geoscience datasets				
	11:45	12:05	2019-077	Nkimo Muleleki: Geophysical methods test for cavity detection at a coal mine near Ermelo			2019-101	Wesley Harrison: Geophysical Investigation of Lithological Groundwater Control on the Waterboerskraal Farm in the Semi-Arid Swartland Terrane, South Africa			2019-091	Sharad Master: New topographic modelling of the Velingara Impact Structure in Casamance, Senegal	
	12:05	12:25	2019-066	Zusakhe Nxantsiya: Subsurface evaluation of dolomitic bedrock near an open sinkhole using electrical resistivity tomography			2019-032	Matome Sekiba: An Intergrated hydrogeophysical approach to delineate groundwater aquifer and subsurface structures			2019-121	Sue Webb: Flashes of Brilliance: Geophysical studies of lightning	
	12:25	12:45	2019-040	Melvin Sethobya: Multidisciplinary geophysical approach for sinkhole and subsidence mapping, West Rand area.			2019-065	Chris Wijs: Geophysical confusion in the search for water			2019-124	Carina Schumann: The high cost of poverty: Changes in lightning distribution due to informal settlements	
	12:45	13:05	2019-053	Ndamulelo Mutshafa: Electrical Resistivity Investigation of Underground Tunnels at Lancaster Gold Mine			2019-058	Seyi Mepaiyeda: Contaminant delineation of a landfill site using electrical resistivity and induced polarization methods in Alice, Eastern Cape, South Africa			2019-071	Victor Mapuranga: Mapping of Subsurface Voids and Low-Density Zones Associated with Undermining	

	13:05	13:50	Lunch			
13:50 - 15:15	13:50	14:15	Theme : Interpretation Keynote speaker: Hernan Ugalde 2019-028: Geological integration of geophysical data: structure and modelling – Two cases from Ireland and Bathurst, Canada	Theme : Oil and Gas Keynote speaker : Stephanie Enslin 2019-059: Shale gas in the Karoo Basin: An opportunity missed or a future prospect?	Theme : Research & Development Keynote speaker : David Khoza 2019-116: South Africa's multi-disciplinary geoscience mapping programme: the challenges and opportunities	
	14:15	14:35	2019-105 Abigail Ayikwei: The Volta Basin Down Under: Geophysical Evidence for the Birimian Basement	2019-097 Mpumelelo Dube: The future of fracking in the Karoo: Understanding new high resolution aeromagnetic data in the Beaufort West Area	Leila Ajjabou: INFACT- Airborne mineral exploration	
	14:35	14:55	2019-044 JP Mubita: Sub-surface structural analysis in east central Namibia: A geophysical approach			WITS Students: The 2019 AfricaArray Geophysics Field School - Near Surface Geophysics applications in the Vredefort impact structure
	14:55	15:15	2019-069 Neil Pendock: Satellite Synthetic Aperture Radar as a Cost-Effective Proxy for Airborne TEM			
	15:15	15:45	Afternoon Refreshments			
16:00 - 17:30	15:45 - 17:00		Closing remarks CGS CEO Awards sponsored by First Quantum Closing ceremony - SAGA President Emmanuel Chirenje			