

			Monday, 7 October 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		Breakaway room C	
10:30 - 12:45	10:30	11:05	Theme : Seismic Keynote Speaker : Valentina Socco 2019-125: Surface waves for mining and engineering applications		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	2019-051	Alan Jones: Beyond chi-squared	2019-054	Tebogo Pule: The macroseismic survey of the M4.6, 2017 Stilfontein earthquake
	11:45	12:05	2019-062	Reece van Buren: From Camp to Mine: Multi-Scale Hard-Rock Seismic Imaging	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	Theme : Seismic Keynote Speaker : Bojan Brodic 2019-110: 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			2019-093	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 Melehmir 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 Jean Legault : 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	2019-083 Samuel Nengola : Preliminary interpretation of the magnetic data in Dordabis district and correlation with various mineral potential, Khomas Region, Namibia	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	2019-090 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	2019-001 Jennifer Fohring : Aquifer prospectivity mapping through deep learning	2019-039 Greg Botha : Re-interpretation of the Cenozoic lithostratigraphy of the Maputaland coastal plain: integration of field mapping and high resolution airborne radiometrics.	2019-103 Sbonelo Ngcongo : Constrained Least Squares Analysis (CLSSA) as a Spectral Decomposition Method
	16:55	17:15	2019-029 Robert Wilson : Exploration and Targeting of Gold Mineralization in Burkina Faso using Airborne Geophysics		
	17:30	18:30	Cocktail hour and Poster session (please note poster titles on page 7)		
	19:00	-	FutureFocus Networking Dinner Sponsored by Anglo American		

Tuesday, 8 October 2019

08:00-10:00	08:00	09:30	Wisdom whispers		
	09:30	10:00	Living in a Yurt - Airborne geophysical investigations with an ultra-light aircraft in Mongolia by Rainer Herd (2019-115)		
	10:00	10:45	Morning Refreshments + Group Photo		
			Breakaway room A	Breakaway room B	Breakaway room C
10:45 - 12:55	10:45	11:15	Theme : AEM Keynote speaker : Louis Polome 2019-113: Airborne Geophysics: Past, Present and Future	Theme : Multi disciplinary Keynote Speaker : Emmanuel Chirenje 2019-117: Optimising the value of a reconnaissance geophysical survey: Case study from Duynefontein marine terrace studies	Theme : Seismic Keynote Speaker : George Apostolopoulos 2019-123: Min-Arch Geophysics
	11:15	11:35	2019-022 Rodney Paterson: 2.5D inversion of airborne EM data – a case study from new regional AEM data from the Mammoth Mines region, Queensland	2019-082 Emmanuel Onyebueke: Geophysical Site Characterisation of Transvaal Basin Architecture and its Implications for Hydrogeological Prospecting and Engineering Applications using Reflection Seismic and Potential Field Data	2019-020 Nombuso Maduna: Seismic Stratigraphy and Placer Potential of Elizabeth Bay
	11:35	11:55	2019-060 Adam Smiarowski: Low-Base Frequency Helicopter AEM Data from a Square-Wave System - Helitem	2019-005 Ramon Carbonell: Cluster analysis of Vp seismic velocity, and resistivity: Subsurface model building.	2019-098 Lebohang Sehoole: Seismic, statistical and spatial analysis of potholes in the western Bushveld Complex, South Africa
	11:55	12:15	2019-055 Malcolm Moreton: ZTEM case study over the La Esperanza epithermal silver-zinc-lead project, Zacatecas and Durango States, Mexico	2019-068 Francois Fourie: Geophysical Surveys across the Daskop Granophyre Dyke	2019-102 Thandeka Khumalo: 3D seismic analysis of Black Reef Formation, South Africa: implications for the source of gold in the Transvaal Supergroup
	12:15	12:35	2019-069 Neil Pendock: Satellite Synthetic Aperture Radar as a Cost-Effective Proxy for Airborne TEM	2019-106 Thiashen Nadan: Subsurface mapping of the Far Western Limb of the Bushveld Complex using Geophysics	2019-018 Georgiana Maries: Cross-profile 2D recording for 3D imaging of iron-oxide mineralization in Blötberget, south-central Sweden
	12:35	12:55	2019-011 Magdel Combrinck: Augmenting 1D conductivity depth sections to include information pertaining to 2D/3D conductors	2019-086 Mihlali Hobo: Multiple geophysical methods used in regolith mapping of a forest plantation in the Highflats, KwaZulu-Natal, South Africa	2019-034 Bojan Brodic: Evaluation of signal properties of a prototype electromagnetic vibrator using MEMS-based landstreamer and wireless seismic recorders
	12:55	14:00	Lunch + #HeforShe: Global solidarity movement for gender equality campaign		

14:00 - 15:35	14:00	14:35	<p>Theme : AEM Keynote speaker : Andrea Viezzoli 2019-063: IP effects demand rethinking the time-depth relationship and sensitivity in TDEM measurements</p>	<p>Theme : Airborne Geophysics Developments Keynote speaker : Dan DiFrancesco 2019-111: 21st Century Exploration: From the Present to the Future</p>	<p>Theme : Earthquake Seismology Keynote speaker : Ray Durrheim 2019-075: Descend, Brave Traveller! Studies of Earthquakes and Extremophiles in Deep South African Gold Mines</p>	
	14:35	14:55	<p>2019-078 Evgeny Karshakov: Overcoming Airborne IP in Frequency Domain: Hopes and Disappointments</p>	<p>2019-107 Chris Van Galder: Wide bandwidth gravity – combining vertical gravity from AG and AGG systems</p>	<p>2019-073 Tsiriandrimanana Rakotondraibe: Seismic Hazard in Madagascar</p>	
	14:55	15:15	<p>2019-092 Nadine Veillette: Advances in Induced Polarization: Increasing the Depth of Investigation with High Resolution</p>	<p>2019-021 Alexander Prikhodko: AFMAG Evolution - Expanding Limits</p>	<p>2019-003 Brassnavy Manzunzu: Determination of shallow shear wave velocity profiles in Johannesburg for Vs30 classification</p>	
	15:15	15:35	<p>2019-112 James Macnae: Geological interpretation of near-surface IP and SPM effects in AEM data.</p>	<p>2019-061 Adam Smiarowski: Tempest Fixed-Wing System Improvements</p>	<p>2019-094 Ranto Raveloson: Ambient noise tomography of the Bushveld Complex</p>	
	15:35	15:50	Afternoon Refreshments			
15:50-17:05	15:50	16:25	<p>Theme : Interpretation Keynote speaker: Hernan Ugalde 2019-028: Geological integration of geophysical data: structure and modelling – Two cases from Ireland and Bathurst, Canada</p>	<p>Theme : Artificial Intelligence Keynote : Desmond Fitzgerald 2019-023: Artificial Intelligence Techniques to the Interpretation of Geophysical Measurements</p>	<p>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</p>	
	16:25	16:45	<p>2019-105 Abigail Ayikwei: The Volta Basin Down Under: Geophysical Evidence for the Birimian Basement</p>	<p>2019-025 David Pratt: Using AI with the magnetic gradient tensor to map basement</p>	<p>2019-081 David Ngobeni : Interpretation of AEM Data of Two Suspected Ingress Zones in the East Rand: Cowles Dam and Blesbokspruit-Grootvlei Section</p>	
	16:45	17:05	<p>2019-044 JP Mubita: Sub-surface structural analysis in east central Namibia: A geophysical approach</p>	<p>2019-026 David Pratt: AI and the magnetic tensor for quick depth estimation</p>	<p>2019-065 Chris Wijns: Geophysical confusion in the search for water</p>	
	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, 9 October 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	Theme : Oil and Gas Keynote speaker : Stephanie Enslin 2019-059: Shale gas in the Karoo Basin: An opportunity missed or a future prospect?	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	2019-097 Mpumelelo Dube: Understanding the Karoo Idolomite network from the new high resolution aeromagnetic data in the Beaufort West Area	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		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 - 12:25	10:30	11:05	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	Theme : Data Processing Keynote speaker : Gordon Cooper 2019-006: Terracing Geophysical Data Using its Shape	Theme : Multidisciplinary Keynote speaker : Stoffel Fourie 2019-074: The important role of Geophysics in decision making during large infrastructure projects
	11:05	11:25	2019-091 Sharad Master: New topographic modelling of the Velingara Impact Structure in Casamance, Senegal	2019-035 Olivier Delage: Multi-scale variability analysis of time series in Geophysics by using the empirical mode decomposition	2019-077 Nkimo Muleleki: Geophysical methods test for cavity detection at a coal mine near Ermelo
	11:25	11:45	2019-121 Sue Webb: Flashes of Brilliance: Geophysical studies of lightning		2019-058 Seyi Mepaiyeda: Contaminant delineation of a landfill site using electrical resistivity and induced polarization methods in Alice, Eastern Cape, South Africa
	11:45	12:05	2019-124 Carina Schumann: The high cost of poverty: Changes in lightning distribution due to informal settlements		2019-040 Melvin Sethobya: Multidisciplinary geophysical approach for sinkhole and subsidence mapping, West Rand area.
	12:05	12:25	2019-118 WITS Students: The 2019 AfricaArray Geophysics Field School - Near Surface Geophysics applications in the Vredefort impact structure		2019-053 Ndamulelo Mutshafa: Electrical Resistivity Investigation of Underground Tunnels at Lancaster Gold Mine

	12:25	13:25	Lunch			
13:25 - 14:40	13:25	14:00	Theme : Research & Development Keynote speaker : David Khoza 2019-116: South Africa's multi-disciplinary geoscience mapping programme: the challenges and opportunities		Theme : Earthquake Seismology Keynote speaker : Martin Brandt 2019-004: The South African National Seismograph Network: Magnitude completeness and research activities	
			2019-071	Victor Mapuranga: Mapping of Subsurface Voids and Low-Density Zones Associated with Undermining (13:25 - 13:45)		
	14:00	14:20	Leila Ajjabou: INFAC- Airborne mineral exploration		2019-041	Sinovuyo Myendeki: Identification of seismogenic structures in Witwatersrand Basin, South Africa
			2019-032	Matome Sekiba: An Intergrated hydrogeophysical approach to delineate groundwater aquifer and subsurface structures (14:05 - 14:25)		
14:20	14:40	2019-024	Rainer Wackerle: Quality Control in Airborne Geophysics		2019-045	Bufelo Lushetile: Evidence of underground water extraction as trigger mechanism of the Anker seismicity
			2019-120 Sechaba Lenong: Characterisation of shallow and deep aquifers in Beaufort West, South Africa (14:25 - 14:40)			
	14:40	15:10	Afternoon Refreshments			
15:10 - 16:30	15:10 - 16:30		Closing remarks CGS CEO Awards sponsored by First Quantum Closing ceremony - SAGA President Emmanuel Chirenje			

Poster Presentations

Abstract #	Surname	Poster Title
2019-009	Gordon Cooper	An Enhanced EHD Filter
2019-016	Anthea Davids	The Structural Mapping of the Pletmos Basin through the Mesozoic and Cenozoic
2019-047	Mako Sitali	Analysis of the recent seismic swarm in Anker Area, Kunene Region
2019-052	Simeon Shilamba	Preliminary interpretation of high resolution airborne magnetic and radiometric data, western part of Hakos survey area
2019-084	Calistus Ramotoroko	Preliminary magnetotelluric investigation of the geothermal potential area in Kasane region, northwest Botswana.
2019-119	Tamara Makhateng	Geophysical insights into the southern Lebombo volcanic sequences and its influence on the formation of the Zululand Basin
2019-122	Emma Nahayo	A continuous decrease of the strength of Earth's magnetic field in Southern Africa: Evolution of the South Atlantic Anomaly in the region