

2009 SAGA BIENNIAL TECHNICAL MEETING & EXHIBITION PROGRAMME			
TUESDAY 15 SEPTEMBER			
19:00 Opening of SAGA Exhibition & Ice Breaker Cocktail Party GAP / QUICK LOG GEOPHYSICS			
WED 16 SEPTEMBER			
SAGA 1 OPENING PLENARY			
08:00	Opening & Welcome	Declan Vogt	
08:10	SAGA	Stefaans du Plessis	
08:20	ASEG	Des Fitzgerald	
08:30	EAGE	Marcel van Loon	
08:40	Inkaba yaAfrica	Maarten de Wit, Brian Horsfield	
08:50	Keynote: Architecture of the Overwacht Suite, Barberton Mountain Land, South Africa: new stratigraphic nomenclature and revised models.		
09:30	Morning Tea	FUGRO AIRBORNE	
TRACK 1			
SAGA 2 AFRICAN AND BARBERTON CASE STUDIES			
10:00	Keynote: Geophysics and the deep structure of the Barberton Belt: A review	Branko Corner	
10:30	Interpretation and modelling of VTEM data in difficult circumstances, Bon Accord nickel-sulphide deposit	Johan de Beer	
10:50	Paleomagnetic Results from a Neoproterozoic Dyke Swarm in the Badplaas-Barberton Area, South Africa	Gavin Selfe	
11:10	Orthogonal AMS and SPO fabrics in the MORB-like Rooi-Rand dyke swarm of South Africa and Swaziland	Leonie Mare	
11:30	Integration of geophysical and satellite imagery data from the Alto de Ligonha pegmatite fields, northern Mozambique: Implications for the structure of the Karoo-age Ellipsis Basin in Limpopo Province, South Africa in the light of new airborne geophysical data.	Warwick Hastie	
12:10	Lunch	Detlef Eberle	
12:20	Lunch	George Henry	
SAGA 4 AFRICA ARRAY			
13:00	Keynote: Stochastic Modelling of the Velocity Structure: Beyond Joint Inversion Methods	Andrzej Kijko	
13:30	Keynote: AfricaArray: objectives, achievements and future activities	K. Boomer	
13:50	Seismic hazard in the DRG and Western Rift Valley of Africa	Ray Durrheim	
14:10	Source mechanisms of mining-related seismicity in the Far West Rand district, South Africa	Tuluka Mavonga	
14:30	Observational Study to Mitigate Seismic Risks in Mines: a new Japanese - South African collaborative project	Andrea Vezzoli	
14:50	Afternoon Tea	Ray Durrheim	
SAGA 6 AIRBORNE ELECTROMAGNETICS			
15:30	Keynote: Advances in airborne EM: Introducing ZTEM	Magdel Combrinck	
16:00	The Good, the Bad, and the Ugly: Airborne EM and the regolith	Keith Fisk	
16:20	The physics of the ground loop	Chris Wijs	
16:40	Integration of geophysical and hydrogeophysical modelling of HTEM data via detailed description of system transfer function and	Braam du Plooy	
17:00	Airborne TDEM by He-filled balloon	Andrea Vezzoli	
17:20	GyroLAG: versatile multi-sensor airborne geophysics platform	Edgar Stettler	
17:30		Laurent Ameglio	
SAGA 8 POSTER SESSION AND HAPPY HOUR - PUB IN THE HUB			
18:00	Fixed Wing Time Domain Electromagnetic Surveys to Promote Mineral Development in the Republic of Uganda.	Darren Burrows	
18:05	A Solution-Space Approach to the Euler Deconvolution of Map Data	Gordon Cooper	
18:10	Measurement of Bushveld Complex rocks for assessment of radar performance	Beki Ngwenya	
18:15	Africa: Implication for the Occurrence of Diamond-bearing Kimberlite pipes	Abera Tessema	
18:20	Some Applications of VTEM for Environmental Studies	Harold van den Berg	
18:25	Tree root mapping with ground penetrating radar	Michael van Schoor	
18:30	Comparison between time- and frequency-domain induced polarisation parameters	Michael van Schoor	
18:30	Happy Hour - Pub in the Hub	UTS GEOPHYSICS	
19:30	Shebeen Party	CGG VERITAS	
THURSDAY 17 SEPTEMBER			
TRACK 1			
SAGA 9 SPACE GEODESY AND GEODESY			
08:30	Keynote: Products of Space Geodesy and links to Earth Science and Astronomy	Stoffel Fourie	
09:00	The Development of a Space Geodesy Station at Matjiesfontein	Ludwig Combrinck	
09:20	Proposal for a Lunar GIS	Roelf Botha	
09:40	Geomagnetic field strength recorded in Iron Age ceramics from southern Africa	Leon Croukamp	
10:00	Morning Tea	Michael Watkeys	
SAGA 11 POTENTIAL FIELD METHODS AND ELECTRICAL RESISTIVITY			
10:30	Keynote: Inversion of Gravity and Magnetic Gradient Data	Tiaan Le Roux	
11:00	Joint inversion of the magnetic anomaly due to a kimberlite pipe and its analytic signal	Peter Fullagar	
11:20	Delineate 3D Iron Ore Geology and Resource Models using the Potential Field Method	Jinfu Chen	
11:40	Multi-Scale Depth Estimation	Des Fitzgerald	
12:00	Model studies of the propagation of errors during the inversion of 2D resistivity data recorded with the Wenner (α) geometry along C	R. K. Odunake	
12:20	Oil Sands Exploration in Itebu - Imushin using Magnetic and Electrical Resistivity Methods	Reece van Buren	
12:40	The influence of curved and angled survey lines on 2D resistivity surveys employing the Wenner (α) geometry	Francis Fourie	
13:00	Lunch	Francis Fourie	
SAGA 13 REFLECTION SEISMICS			
14:00	Keynote: From aspirin to "the bin" in a mere 85 years	Lindsay Linzer	
14:30	Reversed multi-offset VSP traveltimes tomography employing direct-push technology for near-surface seismic velocity imaging	Jeanne Trickett	
14:50	MODIKWA - a successful example of a shallow ore-body imaging by surface 3D seismic	Hendrik Paasche	
15:10	2D Seismic Reflection Surveys and Structural Mapping: Faults, Dips and Domes	Eric Gillot	
15:30	Zonal cooperative inversion of partially co-located crosshole tomographic P- and S-wave traveltimes data sets under automated inco	Geoff Campbell	
15:50	Afternoon Tea	Hendrik Paasche	
SAGA 15 SEISMOLOGY			
16:20	Keynote: Seismic structure of southern Africa: New constraints from surface waves	Ray Durrheim	
16:50	Dispersion of surface waves in Southern Africa from inter-station measurements	Sergei Lebedev	
17:10	Recent seismicity in Mozambique region and its effects to South Africa	Joanne Adam	
17:30		Tobogo Pule	
18:00	Happy Hour - Pub in the Hub	UTS GEOPHYSICS	
19:30	SAGA Gala Dinner	GEOTECH AIRBORNE	
FRIDAY 18 SEPTEMBER			
SAGA 17 SAMTEX			
08:30	Keynote: The SAMTEX experiment: Overview and Preliminary Results	Sue Webb	
09:00	Rapid Mesozoic thermal and chemical modification of the Rehoboth Terrane and Kaapvaal Craton from broadband magnetotellurics	Alan Jones	
09:20	Magnetotelluric study in northeastern Botswana	Mark Muller	
09:40	Anisotropy of Southern African lithosphere and asthenosphere	Marion Miensoop	
10:00	Magnetotelluric imaging across a Neoproterozoic collision zone: Damara belt and surrounding tectonic blocks	Alan Jones	
10:20	Correlation of lithospheric velocity and electrical conductivity for Southern Africa	David Khoza	
10:40	Prediction of DC current flow between the Otjivarongo and Katima Mulilo regions, using 3D DC resistivity forward modeling and ma	Alan Jones	
11:00	SAMTEX - Quo Vadimus?	Pieter Share	
11:20	Tea	Alan Jones	
SAGA 19 CLOSING SESSION			
11:50	Keynote: Exploration and Mining Geophysics and Remote Sensing in 2009 - Where have we come from and where are we going?	Stefaans du Plessis	
12:20	Geoscientists without borders	Charles Pretorius	
12:30	SEG Distinguished lecturer - Lessons learned from simultaneous source investigations	Craig Beasley	
13:00	CLOSING & BEST PAPER AWARDS		
13:15	END		
TRACK 2			
SAGA 3 TENSOR SQUID MAGNETOMETRY			
10:00	Keynote: Geological Applications for FTMG	Eddie Kostlin	
10:30	Where to next with SQUIDS in Exploration?	Andy Rompel	
10:50	Magnetic full tensor gradiometry	Andreas Chwala	
11:10	Detection of buried magnetic objects by a SQUID Gradiometer system	Ronny Stolz	
11:30	TDEM survey at Shea Creek uranium deposit utilising a low-temperature superconductor SQUID	Hans-Georg Meyer	
11:50	The elusive flying SQUID: Interim results from recent tests with a hell-borne EM Low Temperature SQUID system.	Jaco Smit	
12:10	Lunch	Tiaan Le Roux	
SAGA 5 GRAVITY AND GRADIOMETRY			
13:00	Keynote: Gravity gradiometry - today and tomorrow	Edgar Stettler	
13:30	Imaging Techniques for Full Tensor Gravity Gradiometry Data	Dan Difrancesco	
13:50	Exploring exploration play models with FTG Gravity data	Jade Dickinson	
14:10	Results from the Initial Field Trials of a Borehole Gravity Meter for Mining and Geotechnical Applications	Colin Murphy	
14:30	Jwaneng South Structure, Botswana: a new 1.3 km diameter buried Cenozoic impact crater discovered by airship-mounted	Chris Nind	
14:50	Afternoon Tea	Sharad Masters	
SAGA 7 BOREHOLE GEOPHYSICS			
15:30	Keynote: Integration of Borehole Radar and Acoustic Televiewer Data in Geotechnical Boreholes - A Case Study of	Geoff Campbell	
16:00	Wavelet-based semblance analysis applied to geophysical borehole data	Kazek Trofimczyk	
16:20	SIRILOG Prompt Gamma Neutron Activation Analysis (PGNAA) - Spectrometric Nuclear Logging as a tool for Downhole	Celeste Johnson	
16:40	Technical advances in geophysical logging on shaft boreholes	S.Saraswathibhatla	
17:00	The Interpretation of Borehole Geophysical Logs for Geotechnical Risk Assessment at the Paardekraal 13-Level Ventilat	Mary Mahjati	
17:20	Density logging in porous and vuggy rocks	Bathandwa Mabedla	
		Marcus Chatfield	
TRACK 3			
INKABA 1 MARGINS - The Peter Booth Cape Fold Belt + Karoo Basin Symposium			
10:00	Opening Remarks and Housekeeping	Session Chair	Robert Trumbull
10:10	Keynote: A review of the structural geology of the Cape Fold Belt and challenges towards future rese		Peter Booth
10:40	Electrical conductivity of the Cape Fold Belt, South Africa		Brian Horsfield
11:00	Revealing the Beattie Magnetic Anomaly and the Anatomy of the crust of southernmost Africa: Geophysics a	Session Chair	Maarten de Wit
11:20	Faulting of the Witteberg Group Rocks, Steytlerville, Eastern Cape		Gideon Brunston
11:40	Stress Patterns in the Cape Fold Belt		Reggie Domoney
12:00	Early Holocene extensional tectonics in the south-eastern Cape Fold Belt, South Africa		Marc Goedhart
13:00	Denudation rates for Karoo dolerites in southern Africa determined with cosmogenic noble gas nuclides		John Decker
13:20	History of stress at Vaalputs, Namaqualand, South Africa: evidence for a Mid-Cretaceous "Wegener-type Or	Session Chair	Marco Andreoli
13:40	Continental Breakup and Geodynamics in South Africa		Oliver Ritter
14:00	Keynote: An overview of geophysical experiments on the continental margins of Southern Africa	Session Chair	Jacek Stanekiewicz
14:20	Active vs. passive rifting in the South Atlantic from a petrologic perspective: an upwelling controversy		Robert Trumbull
14:40	The Mount Cameroon Volcano, West Africa: an active link between recent eruptions and mantle signatures of		Stephen Njome
15:00	A lithospheric and temperature study from the South Atlantic		Katja Hirsch
15:30	Fresh geoscientific data from the Natal Basin and Mozambique Ridge		Mike Watkeys
15:50	Introduction to the German Priority Programme SAMPLE: South Atlantic Margin Processes and Links to On	Session Chair	Michael Weber
16:10	Inkaba yaAfrica Capacity Building & Business meeting		Brian Horsfield, Maarten de Wit
16:30	Students - Successes and Failures - with poster		Brian Horsfield, Maarten de Wit
16:50	Development of a proposed Geo-Science Train		Marian Tredoux
17:10	Report on funding status and new developments		Stoffel Fourie
17:30	Success, delivery and future - NRF perspective		Robert Trumbull
17:50	closing remarks		Robert Kruger
			Brian Horsfield, Maarten de Wit
INKABA 2 POSTER SESSION A			
17:20	Large-Scale structural map of the Cape Fold Belt derived by remote sensing analysis	Session Chair	Maarten de Wit
17:25	Large scale thrusting across the Kango Inlier, Cape Fold Belt, South Africa (presented by MJ deWit)		Christian Mielke
17:30	A lithological and structural study of the Witteberg Group (Cape Supergroup) with focus on the Wilpoort Form		Shaun Moore
17:35	Folding and faulting in the Weltevrede Formation on Varfontein, Steytlerville area		Wernich Olivier
17:40	A Structural and Petrographical Study of the Peninsular Formation at Moregrovu Quarry, PE		Taryn Scharf
17:45	Paleo-Stress orientation and brief sedimentology of the lower Ecca group, Karoo Basin, South Africa		Moody, Jason
17:50	C- and H-isotope study of the Cretaceous Koegel Fontein Complex (Robert Trumbull to present)		Miles van Eden
17:55	The Petrogenesis of the False Bay Dyke swarm		Catherine Curtis
18:00	An evaluation of the educational impact of the EarthWise teacher training project		Nils Backeberg
18:10	Happy Hour - Pub in the Hub		Mariette Erwee
18:30	Shebeen Party		UTS GEOPHYSICS
19:30			CGG VERITAS
THURSDAY 17 SEPTEMBER			
TRACK 2			
SAGA 10 LABORATORY AND CRUSTAL GEOPHYSICS			
08:30	Keynote: Interpretation of laboratory measured data: New information on pore structure and anisotropy using IP effect	Laurent Ameglio	
09:00	Neutron tomography of geological samples - preliminary results.	Valeriya Zadoroshnaya	
09:20	Continental Deep Drilling Programme	Luke Longridge	
09:40	Geotherms, Lithosphere thickness and Sedimentary Basins	Maarten de Wit	
10:00	Morning Tea	Chris Hatton	
SAGA 12 NUMERICAL METHODS			
10:30	Keynote: Full Tensor Magnetic Gradiometry Processing and Interpretation Developments	Henk Coetzee	
11:00	Enhancing Circular Features in Potential Field Data using a Generalised Radial Derivative Filter	Des Fitzgerald	
11:20	Amplitude effects of magnetic signals on depth estimation routines	Gordon Cooper	
11:40	3D modelling of thin sheets	Madelaine Lee	
12:00	Automated integration of large geophysical data sets using three partitioning cluster algorithms: a comparison	Harst Holstein	
12:20	Inversion of Magnetic and Gravity Fields Applied to the Sub-Basalt Imaging Problem	Hendrik Paasche	
12:40	Lunch	Jorg Ebbing	
SAGA 14 EXPLORATION RADAR AND MINING			
14:00	Keynote: GPR Characteristics of Ore-Bearing Layered Igneous Bodies	Declan Vogt	
14:30	Advances in Drill Rig Deployed Radars	Nigel Cassidy	
14:50	The use of VTEM data in geological mapping and mineral exploration in north-eastern Namibia	Tim Sindle	
15:10	Distinguishing between impact craters and volcanic pipes using ground magnetics: field examples from Zimbabwe	Magdel Combrinck	
15:30	Remote Sensing Heat Anomalies	Sharad Masters	
15:50	Afternoon Tea	Des Fitzgerald	
SAGA 16 CASE STUDIES			
16:20	Keynote: New discovery of Ni-mineralisation in Northern Namibia Geophysical Case Study	Terry Odgers	
16:50	Can the Spectrum Transmitter and Processing Work on a Small Helicopter Platform?	Gavin Selfe	
17:10	Case Study: Dighem survey for non-magnetic dyke detection	John Bell	
17:30	Significantly increasing TEM survey performance by modifying frequency content of transmitter waveform	Stefaans du Plessis	
18:00	Happy Hour - Pub in the Hub	UTS GEOPHYSICS	
19:30	SAGA Gala Dinner	GEOTECH AIRBORNE	
SAGA 18 URANIUM AND RADIOMETRICS			
08:30	Keynote: The Uranium Boom: A Challenge to Geophysical Exploration	Ray van Rensburg	
09:00	Empirical correction for Compton effects in airborne radiometric data	Branko Corner	
09:20	Airborne gamma-ray spectrometry: How to settle Rn atmospheric correction	Henk Coetzee	
09:40	Application of the airborne radiometric method in radiation protection applications	C. Truffert	
10:00	Radon Emanometry Case Studies in Namibia: The Spitzkoppe and Tumas Uranium Deposits	Henk Coetzee	
10:20	Application of ground and airborne geophysical survey data for the identification of suspected groundwater pollution pathwa	Branko Corner	
10:40	A Radon Emanometry Case Study of the Rossing South Deposit, Namibia	Greg Holyer	
11:00	Exploring to Depth in the Shadow of Headframes		
INKABA 3 POSTER SESSION B			
16:20	Distribution and origin of natural gas leakage features on Block 2 of the Orange Basin as interpreted from 2D	Session Chair	Brian Horsfield
16:25	Maximum flooding surface: the ultimate correlator		Dona Boyd
16:30	Assessing Source Rock Maturity within the Prince Albert and the Whitehill formations		Daniel Mikes
16:35	Source Rock Potential of the Lower Ecca Group, Tanqua Karoo Basin		Zainab Mowzer
16:40	Source Rock Potential, Palaeoenvironment & Thermal Maturity of the Karoo Basin, South Africa: Implications		Jannie Ferreira
16:45	Reservoir characterization of wells KDI, KE1, KF1, KH1 in block 3, Orange Basin, offshore South Africa		Andy Arnold
16:50	Chemotraphy of wells A-U1, A-F1, K-M1 and A-G1 in Block 3A used to facilitate reservoir-scale interw		Donovan Lombard
16:55	Remote sensing reconnaissance of the Congo-Zambezi watershed: exploration of palaeo-hydrological pattern		Xavier Schalkwyk
17:00	Aspects of palaeo-terrace formation and stream sediment petrography of the Orange and Vaal River conflu		Tyrel Flugel
17:05	The Proposed Use of Seasonal Forecasts to Improve Maize Production in the Free State		Niquita MacDonald
17:10	Kalahari borehole stratigraphy from the Tsodilo Hills area, NW Botswana: clues to understanding uplift and c		Khofelo Nape
17:15	Mineralogy of the Middle Group chromite cumulates at the Tweekfontein Chrome Mine section, Bushveld Co		Bastien Linol
17:20	Investigation of the behaviour of platinum-group minerals and base metals sulphides during flotation of UG2		Cassius Mphahse
17:25	Department of gold in selected precious metal ores		Thelma Lekgetho
17:30	The Nickel Deposit at Bon Accord, Barberton, South Africa		Meissa van Niekerk
17:35	Magnetotelluric measurements across the southern Barberton greenstone belt: data analysis		Fulhelo Madala
17:40	Magnetotelluric experiment across southern Baberton Greenstone Belt: a students' perspective of the field w		Andreas Nube
17:45	Revealing the Beattie Magnetic Anomaly and the Anatomy of the crust of southernmost Africa		Scott MacLennan
17:50	Development of a proposed Geo-Science Train		Ansa Lindeque
17:55	Analysis of the degree of synchronisation between geophysical records using the method of instantaneous p		Stoffel Fourie
18:00	Update on Laser Development for Lunar Laser Ranging (LLR) in South Africa		Roelf Botha
18:05	Investigation of techniques to determine astronomical seeing conditions at Matjiesfontein		Maria Nickola
18:10	Investigating the variability of Earth gravity field's J2 spherical harmonic coefficient using satellite Laser Rang		Christina Botai
18:30	Happy Hour - Pub in the Hub		UTS GEOPHYSICS
19:30	SAGA Gala Dinner		GEOTECH AIRBORNE