

Programme for IAH-SA WORKSHOP 2020

Wednesday 11 November 2020 – Borehole Drilling (*Facilitator: Preanna Naicker*)

Session	Session Sponsor			
		08:15	09:00	Registration/Hospitality Desk opens
W.1	GEOSS	09:00	09:20	Welcome by 1. Prof Edward Kirumira (Director of STIAS - University of Stellenbosch); 2. Prof Matthys Dippenaar (President of IAH-SA) 3. Fanus Fourie (Chairman of GWD) and 4. Julian Conrad (IAH-SA Secretary and Local Organizing Committee)
		09:20	09:45	Official opening and keynote address by Dr Roger Parsons (Parsons and Associates). "Groundwater exploration and development involves more than just siting, drilling and testing – some observations from recent drought-related work in the Cape"
		09:45	10:30	International water drilling trends and global cutting edge technologies, with case studies (Francois Stassen - Master Drilling).
		10:30	10:35	GEOSS – Company Overview – Dale Barrow
		10:35	11:00	Tea / Coffee Break
W.2	Steyns Drilling	11:00	11:30	"Horizontal drilling for Groundwater Development" – (Wernich Olivier - Master Drilling).
		11:30	12:00	"Deep Large Diameter Hard Rock Drilling Techniques" (Derek Whitfield - EDRS)
		12:00	12:30	"Artesian boreholes – how they must be drilled if artesian conditions are anticipated and how artesian boreholes can be sealed if such conditions were not anticipated; with case studies" "Bill of Quantities"; "Standards & Sizes (metric vs imperial) and Flow rates" (Christo Steyn - Steyns Drilling)
		12:30	13:00	"Drilling dolomite / karst and other problematic geology (Kalahari sands etc)" (Derek Whitfield - EDRS)
		13:00	13:05	Steyns Drilling – Company Overview – Christo Steyn
		13:05	13:15	Official Group Photo
		13:15	14:00	LUNCH
W.3	RPM Drilling	14:00	14:30	"Techniques for drilling into soft rock (i.e. sediments)" (Derek Whitfield - EDRS)
		14:30	15:00	"How to drill managed aquifer recharge boreholes and monitoring boreholes" (Derek Whitfield - EDRS)
		15:00	15:05	RPM Drilling – Company Overview – Roy Moore
		15:05	15:30	Tea / Coffee Break
W.4	GCS Water & Environmental Consultants	15:30	15:45	"Introduction to the SANS standards, with special reference to the yield testing standards" (John Weaver - Cape Groundwater Consultants).
		15:45	16:30	Debate: Drilling standards – are they necessary? How are they to be designed? How are they to be implemented? How are they to be enforced? 1. Fanus Fourie (DWS & GWD) 2. Derek Whitfield (EDRS – Borehole Water Association) 3. Open to the floor (BWA / IAH / GWD / Drillers / Municipalities /Engineers / Hydrogeologists). Introduced; facilitated and closed by Andrew Johnstone (GCS) Minuted by: Preanna Naicker.
		16:30	16:35	GCS – Company Overview – Andrew Johnstone
W.5	Steyns Drilling	16:40	17:30	Bottled/Mineral water/brandy tasting – (John Weaver - Cape Groundwater Consultants -), assisted by Christel van Staden.

Free evening – however for those who want to get together Casa Cervesa is booked from 7 pm.

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Thursday 12 November 2020 – Drilling continued (*Facilitator: Candice Lasher*)

Session	Session Sponsor			
T.6	TorqueAfrica	08:30	09:10	“Drilling supervision guidelines for water supply engineers and hydrogeologists (with lessons learnt from decades of supervising drilling projects) – (Dr Ricky Murray - Groundwater Africa).
		09:10	9:35	“Lessons learnt from decades of drilling, locally and nationally and advice to water supply engineers and hydrogeologists from a drillers perspective” (Roy Moore - RPM Drilling).
		9:35	10:00	“Deep drilling for water supply and dewatering” (Nardus Bezuidenhout - Torque Africa)
		10:00	10:05	TorqueAfrica – Company Overview – Nardus Bezuidenhout
		10:05	10:30	Tea / Coffee Break
T.7	MNE-Oak	10:30	11:10	“Dewatering – An overview including dewatering wells and well geometries with international case studies” (Christoffel Botha - The Dewatering Institute).
		11:10	11:40	“Groundwater exploration, development, especially drilling techniques and challenges within the Cape Flats and Atlantis Aquifers for Cape Town’s water supply augmentation” (David McGibbon and Luke Towers - Umvoto Africa)
		11:40	12:10	“Groundwater exploration and development within the TMG for Cape Town’s water supply augmentation” (Dylan Blake - Umvoto Africa)
		12:10	12:15	MNE Oak – Company Overview – Telez Augustyn
		12:15	12:20	Georoc – Company Overview – Jaco Schoen
		12:20	13:10	LUNCH at STIAS
T.8	Georoc	13:10	~17:00	Site visit to the Steenbras Dam area – visit to deep production boreholes drilled into the TMGA for City of Cape Town water supply augmentation. Lessons learnt – Umvoto/Zutari/GeoTel.
		~17:00	18:30	Relax and refresh
T.9	AB Pumps Sponsorship	18:30	21:30	Workshop dinner (The Stellenbosch Hotel) Pre-dinner drinks
		19:00	19:05	AB Pumps – Company Overview – Johan van der Walt
		19:05	21:30	Workshop dinner (The Stellenbosch Hotel)

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Friday 13 November 2020 – Pumping Test Analysis, Monitoring and Case Studies (Facilitator: Zita Harilall)

Session	Session Sponsor			
F.10	Geowater	08:30	09:15	“Key considerations for supervising pumping tests and analysing the data: From types of tests and data quality to drawdown curves and unpacking the commonly used Cooper-Jacob equation”. (Dr Ricky Murray - Groundwater Africa)
		09:15	09:30	“Overview of the FC Method for recommending abstraction rates”. (Kes Murray - GEOSS)
		09:30	10:00	“Primary Aquifer Data; Fractured Aquifer data and how to tell if there is groundwater / surface water interaction – typical curves and techniques” (Kes Murray - GEOSS)
		10:00	10:05	Geowater – Company Overview – LeRoux Redelinghuys
		10:05	10:30	Tea / Coffee Break
F.11	GeoTel	10:30	11:30	Worked examples to be completed by the delegates using the FC Method, including Cooper-Jacob and Barker analysis. (Kes Murray - GEOSS and Dr Ricky Murray - Groundwater Africa)
		11:30	12:00	“Monitoring – what to monitor and how to monitor; (Mike Holloway – GEOSS)
		12:00	12:20	“Monitoring - new technologies” (Brian Cooper - Inteq)
		12:20	12:40	“Ecological Monitoring and Remote Sensing (Hermanus)” (Dr Kornelius Riemann - Umvoto)
		12:40	13:00	“SANS 241 Part I and Part 2 – the implications of dropping the Class II water as being acceptable; what happens when the water does not meet SANS 241; the role of the DWS guidelines and the monitoring requirements - issues that require consideration”. Dr Roger Parsons (Parsons and Associates).
		13:00	13:05	GeoTel – Company Overview – Sean de Kock
		13:00	13:40	Lunch
F.12	Solinst	13:40	13:45	Solinst – Company Overview – LeRoux Redelinghuys
		13:45	14:15	“Case study – drilling / yield testing / monitoring / management – Langebaan Rd Aquifer and Hopefield wellfields (municipal supply)” – Dr Jaco Nel (City of Cape Town / UWC).
		14:15	14:45	“Case study - Case study – drilling / yield testing / monitoring / management (town supply) – Loeriesfontein and Brandvlei” (BVi - Gert Meiring BVi Consulting Engineers).
		14:45	15:00	Survey and Closure – Julian Conrad (IAH-SA Secretary) and Prof Matthys Dippenaar (President of IAH-SA)