

The aim and provisional program of ISMGAf-2

The event (ISMGAf2) is designed to share the most recent information and findings on the relationship between the impacts of geological processes, toxic metals, trace elements, natural dust and minerals, on environmental quality and public health.

The Future. Reimagined.

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2nd International Symposium on Medical Geology in Africa (ISMGAf-2)

3rd CIRCULAR

The important aim is to provide a platform for discussion and an opportunity to learn more about new developments in the field of Medical Geology, understand and seek possible solutions for some serious health issues, which can be caused by the geological process/materials on the African continent especially.

The provisional program of the 2 days short course (5th-6th/11/2018) as well as the invited talks for the one day symposium (7th/11) is given in the next pages (2 and 3).

More detailed information on the program will be provided at a later stage.



British

Geological Survey









I) Introduction: What is Medical Geology and why it is important in Africa? Presenter: Prof Hassina Mouri, University of Johannesburg, South Africa http://www.ui.ac.za/faculties/science/geology/Pages/Medical-Geology-Research-Group.aspx



II) Soil and Medical Geology

•Sources, analysis and measurement of the mobility of potentially harmful substances in soil, Bioavailability and bioaccessibility, Inorganic contaminants vs organic contaminants, Risk assessments **Presenter: Dr Mark Cave, British Geological Survey, UK** http://www.bgs.ac.uk/staff/profiles/0125.html



III) Environmental Health and its Impacts
• Environmental Health, Effects of Environment on humans, Brownfields Sites, Legacy Mining sites: A case study from Goldfields of Victoria –Australia
Presenter: Prof Kim Dowling, Federation University Australia, Ballarat, Australia



kim-dowling_ IV) Dust and Medical Geology: Elongate Mineral Particles (EMP), Heavy Metals and Silica and Effects on Human Health

https://federation.edu.au/staff/governance/feduni-council/council-members/associate-professor-

•Introduction to Dust and Air Quality, Mineralogy and Geochemistry of Dust: Health Effects and Case Studies

•Hazard Mapping **Presenter: Prof Brenda Buck, University of Nevada, Las Vegas, USA** <u>https://geoscience.unlv.edu/people/department-faculty/brenda-j-buck/</u>



V) Toxicology and Medical Geology
Principles of (Environmental) Toxicologyand basics in Risk Assessment
Introduction to Medical Laboratory Science and Health biomonitoring
Autoimmune models (TCE)
Iimmunotoxicology and exposures to environmental contaminants
Health Effects Case Studies
Speakers: Prof Keil and Prof Pfau, Montana State University, USA

http://www.montana.edu/immtoxlab/



VI) Interactive workshop: Examples of medical geology problems

INVITED SPEAKERS FOR THE 07TH/11/2018

- - Radioactivity and Uranium occurrences in South Africa: impact on environment health especially in homes and water. Speaker: Dr. Levin, Private consultant, South Africa (left
 - Medical geology, challenging areas for future research investigations Speaker: Prof Selinus, Linnaeus University, Sweden (right)



- An epidemiological baseline of communities' disease profile ahead of hydraulic fracturing and shale gas development in the Karoo. Speaker:
 Shanene Olivera (Faculty of Health Sciences, Nelson Mandela University, SA (left)
- Chemical imbalance and impact on mental health. Speaker: Dr. Magnus, Psychiatrist, Life Healthcare, Poortview Psychiatric Hospital SA (right)





Registration Fees (deadline 20/10/2018)			
Category	Short course (5-6 th /11/2018)	1 day talks (7 th /11/2018)	Full event (5-7 th /11/2018)
Students	R650	R350	R800
Academic Staff	R1300	R1000	R2000
Industry	R1900	R1300	R 2800

- The fees include Value Added Tax (VAT), 2 tea/coffee breaks and one lunch per day.
- The registration form (attached) must be completed and returned by email to Dr Rose at: <u>derekr@uj.ac.za</u>
- Delegates can attend the event without presenting/submitting an abstract

Payment information (electronic transfer)		
Bank Name	FNB BANK	
Account No.	62615873149	
Branch Code	210-544	
Branch	CLIENT SERVICES	
Swift code	FIRNZ AJJ	
Reference	GEOLOGY 278730	

IMPORTANT NOTES

• **Proof of payment:** Please send a proof of payment by email to Mr Jonker at: <u>hjonker@uj.ac.za</u> and Mrs Faseka at: <u>dianak@uj.ac.za</u>, copy to <u>hmouri@uj.ac.za</u>

- Cancellation must be received in writing before 30/10/2018 for a refund of 80%.
- •No refund for cancellation after the 30/10/2018.