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## Afvalwater: bate of las in die Moreletaspruitopvanggebied?

U word vriendelik uitgenooi uit na die jaarlikse 'Gratis Lesings' aangebied deur die Moreletaspruit Forum en die Ekologie-bediening van die NG Gemeente Lynnwood,

op

**Donderdag 12 Oktober 2017 om 18:00 – 19:30**

in die Koinonia-lokaal van die Lynnwood NG Kerk, Sussexlaan 439, Lynnwood, Pretoria

- **Dr. Michael Silberbauer:** Afvalwater: waarvandaan en waarheen? - kwantiteit en kwaliteit.
- **Mnr. Kerneels Esterhuysen:** Wat word van afvalwater? - behandeling en hergebruik.
- **Dr. Carin van Ginkel:** Impak van afvalwater op die omgewing en stroomaf gebruikers.

Om te bespreek of vir meer inligting skakel:

Anneli Kühn by [anneli.kuhn@gmail.com](mailto:anneli.kuhn@gmail.com) - Sel: 083 750 2873 of

Peet Crous by [peetcrous@gmail.com](mailto:peetcrous@gmail.com) – Sel: 079 893 5572.

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## Wastewater: asset or liability in the Moreletaspruit Catchment?

You are cordially invited to the annual 'Free Talks' presented by the Moreletaspruit Forum and the Ecology Ministry of the Dutch Reformed Congregation, Lynnwood

on

**Thursday 12 October 2017 from 18:00 to 19:30**

in the Koinonia Room of the Lynnwood Dutch Reformed Church,  
439 Sussex Ave, Lynnwood, Pretoria.

- **Dr. Michael Silberbauer:** Wastewater in the Moreletaspruit where does it come from and where does it go? - Quantity and quality.
- **Mr. Kerneels Esterhuysen:** What happens to wastewater? Treatment and re-use.
- **Dr. Carin van Ginkel:** Impact of wastewater on the aquatic environment and downstream water users

To book or for more information contact:

Anneli Kühn at [anneli.kuhn@gmail.com](mailto:anneli.kuhn@gmail.com) - Cell: 083 750 2873 or

Peet Crous on [peetcrous@gmail.com](mailto:peetcrous@gmail.com) - Cell: 079 893 5572

## **Biographical details**

### **Dr. Mike Silberbauer**

Mike Silberbauer is an aquatic scientist with a doctorate in methods for visualising complex water quality data (2010) and a master's in Limnology (1981), which included a study of phosphorus dynamics in Swartvlei. He worked at the Hydrological Research Institute, Department of Water Affairs, Roodeplaat Dam, from 1977-1984. He then spent a few years as a research assistant at the University of Cape Town from 1985-1989, counting zooplankton from Namibian impoundments, plotting whale numbers off the Antarctic ice shelf and collecting data on Western Cape wetlands. From 1990 to the present he has been back at Roodeplaat Dam at what is now Resource Quality Information Services, in the Department of Water and Sanitation. He has done various things related to water quality mapping including satellite data interpretation, geographical information systems and programming in R.

### **Mr. Kerneels Esterhuysen**

Kerneels Esterhuysen obtained a BSc Hons in Environmental Microbiology at the University of the Free State and BTech in Laboratory Management at the Tshwane University of Technology. He started his professional career in Kimberley City Council, now called Sol Plaatje Municipality. He is now employed by the City of Tshwane under the Water and Sanitation Division of the Utility Services Department. He is involved with Technical Support and Compliance Management for the Waste Water Treatment Works.

### **Dr. Carin van Ginkel**

Carin van Ginkel has a doctorate in Botany on the development of predictive capability for cyanobacterial blooms. Her master's degree was done on the Roodeplaat Dam, investigating the zooplankton of the system. She started her career in 1980 at the then Hydrological Research Institute of DWAF as hydrologist and researcher. She was a research assistant, part time lecturer and researcher at Rhodes University from 1989 - 1993, where she was part of the Buffalo River study, investigating the ecological and sociological aspects of the system. From 1997 she was back at the now RQIS, where she started work as part of the development of the NMMP, and since 1999-2009 she was the Coordinator for the National Eutrophication Monitoring Programme. A monitoring program aimed at establishing the water quality status of the dams of South Africa.

Since 2009 to present she worked as private consultant of her own business, Cripsis Environment. She is main author of the following books:

- Wetland Plants of Southern Africa
- Eutrophication in South Africa, and
- Aquatic and Wetland Plants of Southern Africa