



**Three Day Short Course on
Water and Wastewater Treatment
13 – 15 FEBRUARY 2012**

| PRELIMINARY PROGRAMME | | | | |
|-----------------------------------|-----------------|---|--------------------|--|
| Time | Duration | Topic | Presenter | Organisation |
| MONDAY 13 FEBRUARY 2012 | | | | |
| 08:00 - 08:40 | 60 | Registration | | |
| 08:40 - 08:45 | 5 | Welcome | Wageed Kamish | US |
| 08:45 - 09:30 | 45 | Importance of the administration of legislation | Gareth McConkey | Jantech |
| 09:30 - 10:15 | 45 | Implications of the WDCS on wastewater treatment plants | Gareth McConkey | Jantech |
| 10:15 - 10:45 | 30 | Tea 10:15 to 10:30 | | |
| 10:45 - 11:15 | 30 | Water quality modelling fundamentals | Wageed Kamish | US |
| 11:15 - 12:15 | 60 | An introduction to water treatment | Brendon Theunissen | Aurecon |
| 12:15 - 13:00 | 45 | Filtration and coagulation | Brendon Theunissen | Aurecon |
| 13:00 - 13:45 | 45 | Lunch | | |
| 13:45 - 14:30 | 45 | Settling and Clarification | Dave Crombie | ARCUS GIBB |
| 14:30 - 15:15 | 45 | Operation and maintenance of water treatment plants | Chris Swartz | Chris Swartz Water Utilization Engineers |
| 15:15 - 15:45 | 30 | Tea 15:15 to 15:45 | | |
| 15:45 - 16:30 | 45 | Desalination | Kobus Du Plessis | US |
| TUESDAY 14 FEBRUARY 2012 | | | | |
| 08:00 - 08:30 | 30 | Late registration | | |
| 08:30 - 09:15 | 45 | Wastewater treatment : Process and design loads | Rajan Moodley | City of Cape Town |
| 09:15 - 10:00 | 45 | Wastewater characteristics : Influence on design | | |
| 10:00 - 10:30 | 30 | Tea 10:00 to 10:30 | | |
| 10:30 - 11:15 | 45 | Chemistry of the activated sludge process | Paul Gaydon | SSI |
| 11:15 - 12:00 | 45 | Activated Sludge Process - a theoretical overview | Paul Gaydon | SSI |
| 12:00 - 12:45 | 45 | Biological nutrient removal - nitrogen | André Van Niekerk | Golder Associates |
| 12:45 - 13:30 | 45 | Lunch | | |
| 13:30 - 14:15 | 45 | Biological Nutrient removal – phosphates | André Van Niekerk | Golder Associates |
| 14:15 - 15:00 | 45 | Towards wastewater re-use and recycling | André Van Niekerk | Golder Associates |
| 15:00 - 15:30 | 30 | Tea 15:00 to 15:30 | | |
| 15:30 - 16:15 | 45 | Screening at pumpstations | Heinz Jacobs | US |
| WEDNESDAY 15 FEBRUARY 2012 | | | | |
| 8:00 - 8:30 | 30 | Late registration | | |
| 8:30 - 9:15 | 45 | Nutrient removal - consideration of operational aspects | Corrie Marx | Bigen Africa |
| 9:15 - 10:00 | 45 | Operation and maintenance aspects of wastewater treatment | Chris Swartz | Chris Swartz Water Utilization Engineers |
| 10:00 - 10:30 | 30 | Tea 10:00 to 10:30 | | |
| 10:30 - 11:15 | 45 | Sludge Treatment and Stabilization | Ian Pollard | Bigen Africa |
| 11:15 - 12:00 | 45 | Efficient aeration | Ryan Beswick | Circuit Water Engineering Equipment |
| 12:00 - 12:45 | 45 | Implications of SANS 241 on appropriate testing procedures and sampling procedures for water quality management | Sarel Pieterse | City of Cape Town |
| 12:45 - 13:30 | 45 | Lunch | | |
| 13:30 - 14:15 | 45 | Eutrophication Management in South Africa | Bill Harding | DHEC |
| 14:15 - 15:00 | 45 | Quantifying the effects of wastewater discharges | Wageed Kamish | US |
| 15:00 - 15:15 | 15 | Closure | | |
| 15:15 - 16:00 | 45 | Tea 15:15 to 16:00 | | |

Notes:

- 1) **CPD commenced in January 2006 whereby all professional engineering persons are required to obtain 25 credits over a 5 year cycle, with a minimum of 3 credits per year, for renewal of registration with ECSA from 2007. This course is a Category 1 activity and offers 3 credits. A maximum of 4 credits may be accumulated under this category per year. For more details see www.ecsa.co.za*
- 2) *Certificates for CPD points and CD's containing presentations will be handed out on 15 February 2012 @ 15:15.*

SCOPE

This 3 day course on **Water and Wastewater treatment** has been structured to provide the latest and most relevant theory applicable in the field. The course will also look at the application of the theory in practise as well as legislation and operational aspects which should be considered in the application of the theory. Presenters are drawn from government, university and consulting engineering companies. This course was last presented in 2010.

REGISTRATION FORM – Water and Wastewater Treatment 2012*

Kindly complete this registration form and fax it to **fax number +27-21 8084351** or mail the form to:

The Secretary, Institute for Water and Environmental Engineering, Department of Civil Engineering, University of Stellenbosch, Water and Wastewater Treatment Course 2012, Private Bag X1, MATIELAND, 7602, SOUTH AFRICA. Or by email to: elmienl@sun.ac.za.

On receipt of the completed registration form, an invoice will be faxed to participants within 2 to 3 days. Payment can be made electronically (details will be provided on the invoice) or by cheque, to be made payable to **University of Stellenbosch**. **Please include a blank company letterhead with your registration form.**

CLOSING DATE FOR REGISTRATION AND PAYMENT: 27 January 2012

| | | | | | |
|--|--------------------------|---------|------------------------------|------|--|
| Title | | Surname | | Name | |
| Company | | | | | |
| | VAT registration number: | | Business registration number | | |
| | Postal address: | | Street address: | | |
| Tel | () | | Fax | () | |
| Email | | | Delegate | Y/N | |
| Special dietary requests | | | Presenter | Y/N | |
| Name/Email of person regarding payment | | | Student | Y/N | |

FEES: R6400-00 for 3 days (Includes tea, lunch, course notes & presentations)
R5100-00 for 2; R3400-00 for 1 day

Indicate dates of attendance: Feb 13 Feb 14 Feb 15

The fee for late registration after 27 January 2012 will be 20% more than the above fees.

Cancellations will be accepted in writing and without penalty, up to 10 working days prior to commencement of the course. Participants cancelling in writing less than 10 working days prior to commencement of the course will be liable for a 50% cancellation fee. Following registration without attendance and without written cancellation, delegates will be held responsible for the full course cost.

I HAVE READ AND AGREE TO THE CONDITIONS OF REGISTRATION AS STIPULATED ABOVE

Signature: _____

Date: _____

Enquiries can be directed to:

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