



Three Day Course on
Pipeline & Pumpstation Design
Wednesday 17 to Friday 19 August 2011

Venue: STIAS, Stellenbosch, SOUTH AFRICA

ECSA Continuing Professional Development (CPD) accredited course*
PRELIMINARY PROGRAMME

| 17-Aug-11 | Duration | Wednesday | | |
|----------------|----------|---|----------------------|-------------------------------|
| Start Time | minutes | Description | Presenter | Organisation |
| 7:30 to 8:30 | 60 | Registration | | |
| 8:30 to 9:15 | 45 | Pipe flow theory, pipe material & hydraulic roughness, secondary losses and pipe ageing | Prof Gerrit Basson | Univ. of Stellenbosch |
| 9:15 to 10:00 | 45 | Pipe material selection | Heinrich Mostert | Fiberpipe |
| 10:00 to 10:30 | 30 | Tea | | |
| 10:30 to 11:30 | 60 | Pipeline design considerations | | |
| 11:30 to 12:15 | 45 | Olifants River Water Resources Development Project Phase 2 Case study | Dale Timm | Aurecon/ANJV |
| 12:15 to 13:00 | 45 | PVC & HDPE pipes | | |
| 13:00 to 14:00 | 60 | Lunch | | |
| 14:00 to 14:45 | 45 | Air valves & design principles | | |
| 14:45 to 15:15 | 30 | Tea | | |
| 15:15 to 16:15 | 60 | Pump selection and High lift pump station design | | |
| 18-Aug-11 | | Thursday | | |
| 8:00 to 8:30 | 30 | Late Registration | | |
| 8:30 to 9:15 | 45 | Hydraulic Pressure Transients in pipelines: Modelling and field verification case study | Kobus Prinsloo | SSIS Sahara (Pty) Ltd |
| 9:15 to 10:00 | 45 | Design of river abstraction works | Prof Gerrit Basson | Univ. of Stellenbosch |
| 10:00 to 10:30 | 30 | Tea | | |
| 10:30 to 11:15 | 45 | Advancement of Condition Assessment Techniques for Large Diameter Pipelines | Kobus Prinsloo | SSIS Sahara (Pty) Ltd |
| 11:15 to 12:15 | 60 | Pipeline corrosion causes & mitigation | Vanessa Sealy-Fisher | Isinyithi Cathodic Protection |
| 12:15 to 13:00 | 45 | Eastern Cape Scheme case study | | |
| 13:00 to 14:00 | 45 | Lunch | | |
| 14:00 to 14:45 | 45 | Northern Cape Scheme case study | | |
| 14:45 to 15:15 | 30 | Tea | | |
| 15:15 to 16:00 | 45 | Univ Stellenbosch Hydraulics laboratory visit: River abstraction works | Prof Gerrit Basson | Univ. of Stellenbosch |
| 19-Aug-11 | | Friday | | |
| 8:00 to 8:30 | 30 | Late Registration | | |
| 8:30 to 9:15 | 45 | Concrete pipes: selection process & installation | Alaster Goyns | Pipeline Engineering Services |
| 9:15 to 10:00 | 45 | Environmental considerations during pipeline design and construction | Jonathan Crowther | CCA Environmental |
| 10:00 to 10:30 | 30 | Tea | | |
| 10:30 to 11:15 | 45 | Vaal River Eastern Subsystem Augmentation Project (VRESAP) | Paul le Roux | Goba/VPC |
| 11:15 to 12:00 | 45 | Mossel Bay sea water intake and brine discharge sub-sea pipelines | Menno Gazendam | Murray and Roberts Marine |
| 12:00 to 13:00 | 60 | Control Valves: pressure, flow rate, water level, etc. | Andre Volschenk | Macsteel Fluid Control |
| 13:00 to 14:00 | 60 | Lunch | | |
| 14:00 to 14:45 | 45 | Umgeni Water's Durban Heights Booster Pump Station | Kendall Slater | Goba |
| 14:45 to 15:15 | 30 | Tea | | |
| 15:15 to 16:00 | 45 | Mokolo Crocodile Water Augmentation Project (MCWAP) | Paul le Roux | Goba/MCC |

Note: * 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

SCOPE

This 3 day course on ***Pipeline and Pumpstation Design*** has been structured to give state-of-the-art theory and practise on pipe hydraulics, the design of river abstraction works, high lift pumpstations, pump-pipe systems with transient flow, and valves and control systems. Several case studies will be discussed including planning, design, construction and environmental aspects. The course includes a visit to the Hydraulics Laboratory of the University of Stellenbosch. Presenters are drawn from university, consulting engineering and environmental companies, and industry. This popular course was last presented in 2009.

REGISTRATION FORM – Pipeline and Pumpstation Design Course 2011

Kindly complete this registration form and fax it to **fax number +27-21 4130447** or mail the form to:

The Secretary, Institute for Water and Environmental Engineering, Department of Civil Engineering, University of Stellenbosch, Pipeline and Pumpstation Design 2011, Private Bag X1, MATIELAND, 7602, SOUTH AFRICA. Or by email to: msb@aspt.co.za

On receipt of the completed registration form, an invoice could be emailed to participants if required. Payment can be made electronically (details will be provided on the invoice) or by cheque, to be made payable to **University of Stellenbosch**.

CLOSING DATE FOR REGISTRATION AND PAYMENT: 10 August 2011

| | | | | | |
|--|--------------------------|---------|------------------------------|--------|----------------------|
| Title | <input type="text"/> | Surname | <input type="text"/> | Name | <input type="text"/> |
| Company | <input type="text"/> | | | | |
| | VAT registration number: | | Business registration number | | |
| | Postal address: | | Street address: | | |
| Tel | () | | Fax | () | |
| Email | <input type="text"/> | | Delegate | Y/N | |
| Special dietary requests* | <input type="text"/> | | Presenter (no fee) | Y/N | |
| Name/Email of person regarding payment | <input type="text"/> | | US Student (reduced fee) | Y/N | |

Note: *Halaal at additional cost

FEES: R7000-00 for 3 days (Includes tea, lunch, course notes & presentations);

R5400-00 for 2 days; R3800-00 for 1 day

Indicate dates of attendance: Aug 17: Aug 18: Aug 19:

The fee for late registration after 10 August 2011 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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