

# SANS 10160 LOADING CODE INDUCTION SEMINAR ANNOUNCEMENT

## BACKGROUND REVISED SOUTH AFRICAN LOADING CODE

The SANS 10160 series of Standards consisting of eight Parts SANS 10160-1:2010 to SANS 10160-8:2010 was published in May 2010. The SANS 10160:2010 Standards supersede SABS 0160:1989 (Edition 2), also known as the *South African Loading Code*, which was withdrawn upon publication of the new Standards.

The new South African Loading Code stipulates **actions to be considered in the design of building structures and similar industrial structures**, as well as the basis of design which defines the **general requirements for structural performance**. It should be used together with the existing materials-based standards for structural design in South Africa. It represents a substantial revision of the previous Standard.

SANS 10160:2010 is primarily referenced to Eurocode, and can therefore be considered to be harmonised with international design practice. Whilst maintaining consistency with Eurocode, it nevertheless provides for South African conditions, requirements and design practice in an efficient manner, particularly its scope of application and procedures, performance levels, layout and format.

## MAIN FEATURES OF SANS 10160:2010

The main features of the new South African Loading Code are the following:

**The scope of application and the level of structural performance** of SABS 0160:1989 are maintained. Important implications are that the previous Standard could be withdrawn with immediate effect and that the new Standard series can readily be applied together with the existing materials-based design standards.

**Consistency with the relevant Eurocode Standards and Parts is maintained** resulting in improved international harmonisation; the availability of proper reference standards, together with a substantial body of background knowledge; allowing for the use of Eurocode for applications beyond the scope of SANS 10160:2010 and of an advanced nature.

**Advancement and updating of the procedures for actions** provided for in the previous Loading Code which includes self-weight and imposed loads; wind actions; seismic actions and requirements; actions on crane support structures: Procedures were substantially revised, but at the same time adjusted to South African conditions.

**Extension of the scope of design requirements and actions** based on the relevant Eurocode standards includes the explicit provision for the basis of design, including geotechnical actions; actions due to rotating machinery; thermal actions; actions during execution and construction.

## INDUCTION SEMINAR

A series of induction seminars will be held across the country, presenting the contents of SANS 10160:2010 and demonstrating its interpretation and application in structural design. The purpose of the induction seminar can therefore be contrasted to the seminars presented in 2008, which had the objective of providing the background to the proposed standard in order to invite public comment.

## OBJECTIVE

This seminar aims to put practising engineers in a position to use the SANS 10160:2010 Standard effectively. It will provide a thorough and intensive coverage of requirements for normal structural design and the presentation will therefore focus on the general parts of the Standard, Parts 1 to 4. Specialised applications, mainly represented by Parts 5 to 8, will be briefly reviewed.

## CONTENTS

The seminar will consist of the following:

- Exposition of the scope, requirements, procedures and stipulations of SANS 10160:2010
- Explanation of procedures through examples

## PRESENTERS

The seminar will be presented by experts closely involved in the development of SANS 10160:2010 as members of the SAICE Working Group: Mr Peter Day, Prof Peter Dunaiski, Dr Adam Goliger, Prof Johan Retief, Prof Jan Wium

## DOCUMENTATION

Substantial documentation will be provided for the seminar:

- Since the lectures will liberally refer to the Standard, a hard copy of the complete set of Standards SANS 10160:2010 Part 1 – Part 8 will be included in the documentation by special arrangement with SABS.
- Extensive seminar notes, including worked examples
- Digital copy of the presentations
- Copy of the book: JV Retief, PE Dunaiski (Ed), *Background to SANS 10160, Basis of Structural Design and Actions for Buildings and Industrial Structures*, Sun Media, ISBN 978-1-920338-10-7, Stellenbosch, 2009

## DATES & VENUES

DATE	LOCATION	VENUE
Monday 31 October 2011	Stellenbosch	STIAS Conference Centre, Stellenbosch University
Wednesday 2 November 2011	Johannesburg	Airport Grand Hotel & Conference Centre
Tuesday 8 November 2011	Durban	Master Builders KZN Conference Centre
Thursday 10 November 2011	Pretoria	CSIR International Convention Centre

## PROGRAMME

TIME	SESSION	PART	TOPIC	PRESENTER
08:00 - 09:00			Registration with coffee	
09:00 - 11:00	I		<b>Introduction</b>	Dunaiski
		1	<b>Basis of design</b>	Retief & Day
		2	<b>Self-weight &amp; Imposed loads</b>	Dunaiski
11:00 - 11:30			Coffee	
11:30 - 13:00	II	3	<b>Wind actions</b>	Goliger & Dunaiski
13:00 - 14:00			Lunch	
14:00 - 15:00	III	4	<b>Seismic actions &amp; requirements</b>	Wium
15:00 - 15:30			Coffee	
15:30 - 16:30	IV	1-8	<b>Special Applications</b>	All presenters

## CPD CREDITS

The Induction Seminar will be registered for CPD credits, with one CPD point for full day attendance.

## REGISTRATION

The last day for registration is **Friday 14 October 2011** for all the venues. The number of delegates will be restricted for the purpose of effective communication, so early registration is advisable. Please complete the enclosed registration form and return it by:

### Email (preferred method)

amandaw@sun.ac.za

*The form can either be filled in electronically in Adobe Acrobat Pro or printed out, filled in by hand and scanned in.*

### Fax

Fax: 021 808 4947

Att: Mrs Amanda de Wet

Tel: 021 808 4404

### Mail

Department of Civil Engineering  
c/o Mrs Amanda de Wet (S312)  
University of Stellenbosch  
Private Bag X1  
MATIELAND 7602

## CANCELLATIONS

Written cancellations will be accepted without penalty up to two weeks prior to the specific seminar. Thereafter a cancellation fee of 20% of the applicable fee will be deducted from the refund.

## SEMINAR FEES

The standard fee for the Induction Seminar is R4 900. Provision is made for discounts for **Early Bird registration** and for more than one delegate per company/organisation, even if attended at different venues and/or from different business units. Proof of full payment is required by the deadline of **14 September 2011** to qualify for the Early Bird discount. This also applies to company payment when an invoice is submitted.

DELEGATES	DISCOUNT	STANDARD FEE	EARLY BIRD FEE
1	-	R4 900	R4 400
2 - 4	10%	R4 410	R3 960
5 +	20%	R3 920	R3 520
<b>Final date for registration</b>	-	<b>14 October 2011</b>	<b>14 September 2011</b>

## PAYMENTS

- Seminar fee may be paid electronically or by direct bank deposit.
- Payment by invoice: an invoice will be issued **only if requested** if this method of company payment is preferred. Please allow sufficient time for registration of your company as creditor to Stellenbosch University and for payment to be completed before the deadline.
- Please state the invoice and debtor's number when making a payment.
- Fax proof of payment to 021 808 4947.
- Make cheques payable to the University of Stellenbosch.

### Bank Details (for direct payments)

Account: University of Stellenbosch  
Bank: Standard Bank  
Location: Stellenbosch  
Account No: 073006955  
Branch code: 050610  
Reference: R289 + initials & surname

# REGISTRATION FORM

## PERSONAL DETAILS *(please attach copy of ID)*

Title	First Name
Surname	
Telephone	Cell
Email	

## COMPANY DETAILS *(if paying by invoice)*

<input type="checkbox"/> Invoice required <i>(please tick if required)</i>	
Company	
Telephone	Fax
Email	
Reg No.	VAT No.
Address	

## ATTENDANCE

<b>Venue choice</b> <i>(please tick one)</i>	
<input type="checkbox"/> <b>Stellenbosch</b> (Monday 31 October)	<input type="checkbox"/> <b>Durban</b> (Tuesday 8 November)
<input type="checkbox"/> <b>Johannesburg</b> (Wednesday 2 November)	<input type="checkbox"/> <b>Pretoria</b> (Thursday 10 November)
Please specify any special dietary requirements:	

I have read and I agree to the conditions of registration as stipulated above.

Signature	Date
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**Bank Details:** University of Stellenbosch | Standard Bank | Stellenbosch  
Account: 07 300 6955 | Branch code: 050610