As Chairman of the Durban Branch, I would like to take the opportunity on behalf of all our committee members to pay a special tribute to an “International Icon”, and the “Father of our Nation” Dr. Nelson Rolihlahla Mandela, who celebrated his 95th birthday on 18 July 2013.

To many of us he has been an inspiration and a person of the highest integrity whom we hold in high esteem, and our thoughts and prayers are with him whilst he is in hospital.

As engineering practitioners, he has left an indelible mark in many of us and we must ensure that we do our best in our profession to make our country a “great” place to live in for all South Africans. He has sacrificed so much for us and it is our duty to keep his legacy going.

Get well soon Madiba.

Vishal Krishandutt Chair-SAICE Durban

"I have walked that long road to freedom. I have tried not to falter; I have made missteps along the way. But I have discovered the secret that after climbing a great hill, one only finds that there are many more hills to climb. I have taken a moment here to rest, to steal a view of the glorious vista that surrounds me, to look back on the distance I have come. But I can rest only for a moment, for with freedom comes responsibilities, and I dare not linger, for my long walk is not yet ended."

- Long Walk to Freedom
The Durban branch recently held their branch award functions. Many technical excellence and community-based projects were submitted and SAICE would like to congratulate all companies who entered their projects into the branch award categories.

Marsh Africa Risk Services has been a great supporter of SAICE over the past few years and was once again the main sponsor for the Durban branch awards.

3 Technical excellence projects won their categories, namely:

**Project:** Tshelimnyama Pedestrian Bridge
**Client:** South African National Roads Agency Limited
**Professional team:** SMEC South Africa (Pty) Ltd / GAPP Architects
**Main Contractors:** J T Ross (Pty) Ltd / Thina Ross Projects
**Major Sub-Contractors:** JH Gouws Precision Engineering / Freyssinet-Cable Stays

**Project:** Mahatma Gandhi Road Sewer Micro Tunnel – Technical Excellence
**Client:** eThekwini Municipality – Water and Waste Services
**Professional team:** Hatch Goba/Drennan, Maud & Partners
**Main Contractors:** Group 5
**Major Sub-Contractors:** Coleman Tunneling

**Project:** Greening of Kwa Zulu Natal’s Roads – Technical Excellence
**Client:** Kwa Zulu Natal Department of Transport
**Professional team:** Naidu Consulting (Pty) Ltd
**Main Contractors:** Wouyne Plant Hire
**Major Sub-Contractors:** Aqua Transport & Plant Hire (Pty) Ltd – Asphalt Division

In the community-based categories there was one winner namely;

**Project:** Model Kloof Pedestrian Bridge and Walkway – Community Based
**Client:** South African National Roads Agency SOC Limited
**Professional team:** Royal Haskoning DHV
**Main Contractors:** Afrostructures (Pty) Ltd
**Major Sub-Contractor:** Amsteele Systems/Honel/Clearvu Fencing
"Small crack - Big failure"

Failure is seldom an act of nature. The cause of most major accidents, breakdowns and quality problems can be linked back to inappropriate actions by people; cracks in the system. Disaster happens when all the cracks join forces and work together.

Root Cause Analysis is a technique that can be used to recognise system cracks and repair them. The technique can be applied individually, but is more effective when it is applied by a team.

In this presentation, Harold will show how we live with system cracks around us and even perpetuate them. He will discuss why we don’t recognise them and how we can get everyone in an organisation to recognise and repair them.

VENUE:
Royal Natal Yacht Club
DATE:
6th August 2013
TIME:
5:00pm

SPONSOR:
Durban Branch is currently looking for a sponsor for the evening’s refreshments.
SAICE offers free advertising in the newsletter for three months.
Companies interested to please contact Cindy Austen at cindy@saice.org.za

The Inside “Scoop”

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<tr>
<td>August</td>
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Committee and Branch Meetings take place the FIRST Tuesday of every month at the
ROYAL NATAL YACHT CLUB, DURBAN ESPLANADE

MEETING TIMES
Committee: 4—5 pm
Networking: 5—5:30 pm
Branch Presentation: 5:30—6:30pm

DURBAN BRANCH CHAIRMAN
Vishal Krishandutt
Cell: 082 556 8922
Vishal.krishandutt@durban.gov.za

ADMIN/EVENTS
Cindy Austen
Tel: (031) 260 1832
cindy@saice.org.za

“I learned that courage was not the absence of fear, but the triumph over it. The brave man is not he who does not feel afraid, but he who conquers that fear.”
-Nelson Mandela
ABOUT THE BRIDGE BUILDING COMPETITION

Building our future through Science and Technology. The SAICE Durban Branch runs an annual schools bridge building competition for Grade 10—12 for Durban Schools to bridge the gap between the civil engineering profession and the youth of South Africa. This year sees the 23rd year of this event and we believe the symbolic building of bridges between the youth of South Africa is as vital as the physical construction.

BECOME A SPONSOR

As a leading organisation within the civil engineering we at SAICE feel that your support of the future of the civil engineering profession is essential and highly valued. In previous year’s we were fortunate and appreciative to have your support as sponsors and we hope to continue the tradition going forward for this year’s event.

We are looking forward to yet another successful event!
“No one is born hating another person because of the color of his skin, or his background, or his religion. People must learn to hate, and if they can learn to hate, they can be taught to love, for love comes more naturally to the human heart than its opposite”
What’s On……?

Concrete Society of Southern Africa
Incorporated Association not for gain / Reg. No. 1956/069468/08
Public Benefit Organization / Reg. No. 930021221
PO Box 75364 • Lynnwood Ridge • 0040
Directors: WP Boshoff | R Maliehe

KwaZulu-Natal Branch

KZN – CONCRETE SOCIETY GOLF DAY

GARTH GAMBLE GOLF DAY

The KwaZulu Natal Branch of the Concrete Society of Southern Africa cordially invites you to participate in our 2013 Annual Golf Day at Beachwood Golf Course (Durban).

The competition will be a four-ball Alliance with two scores to count on all 18 holes. Prizes will be provided to all competing players, with additional prizes for Longest, Closest etc…

To secure your entry we kindly request direct payment into the Society’s bank account (details provided below), as a delayed cheque in the post could forfeit your opportunity to play.

Please complete the entry form and return with proof of payment to fax # 031-564 0583 or e-mail to Andries van Rensburg andriesvr@chrystsco.co.za by Wednesday 4th September 2013 and in return your booking will be confirmed and an invoice processed as required.

DATE : Friday 20th September 2013
VENUE : BEACHWOOD GOLF CLUB
TIME : Tee off times will commence from (10:31am – 12:09pm)
COST : R2000.00 per four-ball (please note VAT is not applicable)
BANKING : Concrete Society of SA, KZN Branch
          Standard Bank – Kingsmead – Code: 040 026 – Acc #: 05 004 6659

BENEFITS OF THE GOLF DAY

➢ Your R2000.00 will be well spent on this prestigious Golf Course considering that the cost of the halfway house lunch and dinner is included in this cost.
➢ All companies sponsoring a four-ball will be allowed to put up Banners on either a green or tee except on holes 1, 3, 4, 12, 15 & 18 as this will be only for wet hole sponsorship.
➢ Do some networking between all the hacking and ball searching.

SPONSORSHIP

We rely on the support of the industry for this Day to be a success and we will greatly appreciate support in the following categories.

➢ Sponsorship of a four-ball + tee or green advertising  R2000.00
➢ Sponsorship of a wet Hole (6 holes available)  R1000.00 + Drinks & Distractions
➢ Sponsorship of the Putting Green  R2500.00

Andries van Rensburg
Tel: 031-564 0325
Fax: 031-564 0853
Cell: 082 855 3385
andriesvr@chrystsco.co.za

Branch Chair: Therese du Plessis
Tel: +27 31 450 4548 • Cell: +27 83 703 1632 • Email duplessist@cimpor.com • Website www.concretesociety.co.za

MAKE EVERY DAY A MANDELA DAY
What’s On ......?

2013 SAICE ANNUAL AWARDS

DATE 17 October 2013
VENUE Emperors Palace
RSVP celestine@saice.org.za
TIME 18:00 for 18:30
DRESS CODE Formal / Traditional
TICKETS R550 / R5300 Per Table

“For to be free is not merely to cast off one’s chains, but to live in a way that respects and enhances the freedom of others”

-Nelson Mandela
What’s On....?

SAISC Short Course:
Design and Construction of Composite Steel-Concrete Floor Systems

KZN  Gauteng  Namibia  Cape

Objective
This course will introduce the design of steel framed buildings with composite floors, in sufficient detail to enable engineers to design such structures and ensure that adequate quality assurance is done during construction.

Scope
The course will be limited to the design, detailing and quality assurance of multi-story steel framed buildings with composite floors. Beam design, floor design, typical details and fire protection will be addressed.

The course will include quality assurance from the engineers’ perspective.

Approach
The course will contain a mix of theory and practical design with examples. Design software for composite beams will be included in the course packet.

Prerequisites
The course is primarily intended to benefit engineers who would like to learn how to design multi-story steel framed buildings. Draughtsmen, contractors and architects would also benefit from the course.

It is recommended that attendees bring the SAISC Red book and SANS 10162-1 since references will be made to both during the course.

Fees
Members: R3 600.00
Non members: R4 700.00
Includes lunch at midday and design software

RSVP
Please complete the registration form and return not later than 5 working days prior to starting date

To Pamela Myranda
pamela@saisc.co.za
011 726 6111 (t)
011 482 9644 (f)

CPD Points
1 SAICE CPD point will be awarded for completion.

Speakers
Spencer Ering (SAISC)
Amanuel Gebremeskel (SAISC)

Dates, Times & Venues

KZN
Date: 19 August 2013
Time: 8:00 – 17:00
Venue: Westville Country Club,
1 Link Road, Westville

Gauteng
Date: 26 August 2013
Time: 8:00 – 17:00
Venue: Wits Professional Development Hub, Wits
Commercial Enterprise, 92 Empire
Road, Braamfontein

Namibia
Date: 30 September 2013
Time: 8:00 – 17:00
Venue: Safari Hotel and
Conference Centre, Corner of Auas
and Aviation Streets, Windhoek

Cape
Date: 3 October 2013
Time: 8:00 – 17:00
Venue: The River Club, Liesbeek
Parkway, Observatory

MAKE EVERY DAY
A MANDELA DAY

OUTLOOK NEWSLETTER
What’s On in Pietermaritzburg?

SAICE PIETERMARITZBURG GOLF DAY

FRIDAY 23 AUGUST 2013

VICTORIA COUNTRY CLUB
R1600 per Four Ball

Sponsorship opportunities:
- Tee to Green @ R1500 per hole
- Longest Drive Prize value @ R1000
- Closest to the pin Prize value @ R1000

Contact grant.kendal@rhdhv.com for bookings

“What counts in life is not the mere fact that we have lived. It is what difference we have made to the lives of others that will determine the significance of the life we lead.”

-Nelson Mandela
A GOOD READ...surviving this “crazy” profession

WESTERN-AQUEDUCT SITE VISIT 9 July 2013

Being exposed to the working world for the first time as a second year engineering student has to be one of the most intimidating, yet fulfilling experiences. Let me start by saying that I could not have asked for a better place to begin my in-service training than at Knight Piésold Durban. Being exposed to this environment, I often find myself in awe of the people that work here, both on a professional and personal level.

On the 5th day of my in-service, I had the opportunity to go on my first site visit to the Western Aqueduct-Phase 2 pipeline route alongside Barry Bredenkamp a professional engineer with Knight Piésold. I often found myself making a mental checklist of all the information he was ready to share with me. On our way to the site, Mr Bredenkamp provided me with what he called “Hydraulics 101.”

Knight Piésold Durban specialises in pipelines and in our 20 minute drive to site I was told about the basics of pipe design. This consisted of hoop stress, transient flow, and the necessity of air valves.

In my short time working at Knight Piésold I have quickly come to realise that what we learn in theory cannot prepare us sufficiently for what is required realistically and practically. As a future engineer, the knowledge and experience gained during in-service is essential.

The Western-Aqueduct is a large project and the pipeline will stretch from Inchanga to Ntuzuma in Durban with an extension project called the Northern Aqueduct. The pipeline will be constructed using various methods suitting the area as well as making sufficient provisions for the local communities. Pipe-jacking is one of the methods that will be employed for crossings so railways and roads do not have to be broken down and then reconstructed. Provisions for the public are taken into serious consideration, however in some situations, the disruption to the general public cannot be prevented. For this particular project, traffic on the M14 will increase significantly as the alternate route which many commuters use will be under construction to accommodate the pipeline. The construction to the alternate route will undergo significant alignment changes which will disrupt the M14 traffic for a prolonged period of time.

Introduced to a project of this magnitude at such an early stage of my life in engineering has been exciting and informative. Engineers undergo a substantial amount of pressure daily and those who can truly rise above this pressure and remain innovative and passionate are sure to survive this crazy profession.

Article submitted by:
Knight Piésold (Pty) Ltd. Durban: e-mail: lsmith@knightpiesold.com)
ON BEHALF OF Preanca Appanna
BSc Engineering-Civil (2nd Year) - University of Kwa Zulu Natal

“Education is the most powerful weapon which you can use to change the world.”
-Nelson Mandela
Thank you for your continued support....

Success does not come from eliminating risk.

SUCCESS COMES FROM MANAGING RISK FOR GROWTH.

We help you balance your strengths against the risks that come with growth.

A NEW PAN-AFRICAN LEADER
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MAKE EVERY DAY A MANDELA DAY
"For to be free is not merely to cast off one’s chains, but to live in a way that respects and enhances the freedom of others”

-Nelson Mandela
CONTACT US: 031 940 9473
consumables@nashuadbn.co.za
RTT Building, 14 Imvubu Park Place, Riverhorse Valley, Durban
Industry Opportunities

THE SOUTH AFRICAN INSTITUTION OF CIVIL ENGINEERING

SAICE Pietermaritzburg Branch is looking for an

Administrator

Working hours 8-12h30pm (half day) with occasional after hours attendance at meetings and SAICE events.

Minimum Requirements
- Relevant tertiary qualification or equivalent
- Two years relevant experience
- Strong administrative and people skills.
- Code 08 Drivers Licence & must have own vehicle
- Must be able to travel for meetings and events as and when required.
- Good knowledge of word processing and presentation packages.
- Good Marketing Skills
- Good People skills
- Basic Accounting will be an added advantage

Job functions:
- Handling of all incoming and outgoing correspondence for branches, including enquiries, notices and adverts for courses and seminars
- Co-ordinating, organising and overseeing Committee and Branch functions including preparation of minutes
- Assisting the Treasurer with the control of finances for the branch
- Organisation of Annual Events, viz. Annual Awards Banquet, Bridge Building competition, SAICE Golf Days, SAICE Presidential visits, and Site tours and visits
- Assisting Editor with content for the SAICE’s Outlook Newsletter
- Distribution of Outlook Newsletter to members
- Communication with members on SAICE related matters
- Maintain and update member database on a regular basis.
- Co-ordinating and assisting with courses run by SAICE Durban & PMB
- The handling of all Continuous Professional Development applications and correspondence for branch presentations and members attendance.
- Regularly updating and maintaining of branch website.
- Marketing activities i.e. attracting advertisements for the newsletter and website, marketing SAICE Events, Technical Presentations and Site Visits

Send a 2 page CV to cindy@saice.org.za

Closing Date: 09 August 2013

“I stand here before you not as a prophet but as a humb- le servant of you, the people. Your tireless and heroic sac- rifices have made it possible for me to be here today. I therefore place the remaining years of my life in your hands”

- First day of his release, Cape Town (11 February 1990)