

- from http://resources.ca.gov/docs/IRM_Action_Plan12-10.pdf
- CoJ (City of Johannesburg) 2010. *Plans for Bruma clean-up*. Viewed 13 March 2014 from http://www.joburg.org.za/index.php?option=com_content&view=article&id=5798&catid=88&Itemid=266
- CoJ (City of Johannesburg) 2012. *Bruma Lake gets cleaned up*. Viewed 13 March 2014 from http://www.joburg.org.za/index.php?option=com_content&view=article&id=7678&catid=88&Itemid=266
- DoT (Department of Transport) 2011. *Gauteng Freeway Improvement Project Steering Committee Report*. Johannesburg: Department of Transport.
- Gauteng Online 2012. *The Economy of Gauteng*. Viewed 27 February 2014 from <http://www.gautengonline.gov.za/Business/Pages/TheEconomyofGauteng.aspx>
- Gautrain 2009. *Why rapid rail*. Viewed 4 March 2014 from <http://www.gautrain.co.za/about/about-gautrain/why-rapid-rail/>
- Itweb 2013. *Bite the bullet: e-tolls are here*. Viewed 17 May 2014 from http://www.itweb.co.za/index.php?option=com_content&view=article&id=68798
- News24 2014. *SANRAL, minister admit e-toll problems*. Viewed 26 February 2014 from <http://m.news24.com/fin24/Economy/South-Africa/>
- Sanral-minister-admit-e-toll-problems-20140218
- SANRAL (South African National Roads Agency Limited) 2007. *Gauteng Freeway Improvement Project*. Viewed 10 March 2014 from <http://www.nra.co.za/>
- Van Schie, K 2012. Another setback for Bruma Lake project. *The Star*. Viewed 13 March 2014 from <http://www.iol.co.za/the-star/another-setback-for-bruma-lake-project-1.1436274>
- UK DoE (United Kingdom Department of the Environment) 1988. *Integrated Pollution Control: A Consultation Paper*. London: HMSO. □

▶ DID YOU KNOW?

FIFA 2014 WORLD CUP

The FIFA 2014 World Cup is currently being held in Brazil. Although eighteen locations were initially presented as potential World Cup host cities, only twelve were picked. An estimated R34.7 billion was spent on the stadium projects. This included five new stadiums in Sao Paulo, Salvador, Recife, Cuiabá, Manaus and Natal. Existing stadiums in Rio de Janeiro, Fortaleza, Belo Horizonte, Porto Alegre and Curitiba were renovated, while the Estádio Nacional Mané Garrincha in the capital Brasília was demolished and rebuilt.

The Estádio Nacional is the second-most expensive soccer stadium in the world after England's Wembley Stadium at an estimated R9 billion. The stadium is named

after the legendary Mané Garrincha, who won the 1958 and 1962 World Cups with the Brazil national team. The new stadium was founded on the philosophy of carbon neutrality, recycling and complete access via public transport. This environmentally friendly construction project distinguishes Brasília as a world leader in sustainable urban planning.

The airports in Brazil also needed to be upgraded to accommodate the estimated 3 million people using flights to travel between matches. Major upgrades were also required to the existing road network which spans over 4 300 km of highways, light rail and bus rapid transit that connect the airports to the stadiums and the city centres. Over R50 billion is being spent on building new hotels to ac-

commodate not only World Cup spectators, but also visitors to the 2016 Summer Olympics to be held in Rio de Janeiro.

Brazil won the World Cup in 1958, 1962, 1970, 1994 and 2002. The 2014 World Cup is the second World Cup that Brazil is hosting. In the 1950 World Cup that Brazil hosted, they lost in the finals to Uruguay. The result is said to have been one of the biggest upsets in football history, and since then the term *Maracanazo* has been used to refer to the victory of an underdog playing in the Maracana Stadium in Rio de Janeiro against the Brazil national team.

Avinash Menon

*SAIGE Young Members Panel
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▶ DO YOU KNOW WHO I AM?

It was exam time again for the third-year civil engineering class. The exam papers were handed out together with strict instructions that the paper had to be completed within the time allotted. Their professor warned that not a single minute longer than the allowed two hours would be granted. Students whose scripts were not on his desk within the next two hours would fail.

Half an hour into the exam a student came running in and requested an exam paper. "You will not have enough time to

finish," the professor remarked sarcastically. "Not to worry, I will complete the paper," the student assured him, took the paper, sat down and started writing.

After two hours the professor announced that the time was up, and demanded that all exam scripts be handed in immediately. As the students filed out they piled their scripts on his desk, everyone except the student who had arrived late. He quietly continued answering the paper. Half an hour later he stood up, went to the pro-

fessor's desk and tried to place his exam paper on top of the pile.

"Oh no," said the professor, looking up from his work, "you were late, so I will not allow this."

"Professor, do you know who I am?" the student asked politely.

"No," the professor replied tersely.

"DON'T YOU KNOW WHO I AM?" the student insisted.

"No, and I don't care either," the professor replied, visibly irritated by now.

"Cool," replied the student, as he deftly slipped his script into the middle of the pile, and calmly walked out of the room.



The SAICE UCT Student Chapter cordially invites all SAICE members to attend our 5th annual

Cocktail Evening

When: 18h00–21h00, 7 August 2014

Where: Main Foyer, Leslie Social Science Building, UCT Upper Campus

Dress: Smart-casual

The Cocktail Evening provides an opportunity for constructive interaction between students and professional civil engineers in a semi-formal environment. Food and drinks will be provided.



Companies wishing to be officially represented at the event will be acknowledged in the event programme and provided with tables and space to set up an advertising stall.

For more information please contact:
Sam Wegener, wgnsam001@myuct.ac.za

Corporate sponsorship will be greatly appreciated.



MPumi's cartoon of the month



The long walk has only just begun