

# INDEX TO CIVIL ENGINEERING MAGAZINE 2016 (Volume 24)

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<b><u>AWARDS</u></b>		
<b>SAICE-SAFCEC 2016 AWARDS</b>		
Excellence in Civil Engineering	Overview; sponsors	<b>10/9-10</b>
<b>Community-based Projects</b>		
Century City MyCiTi IRPTN Station	Finalist; Cape Town; Integrated Rapid Transport	<b>10/56</b>
Construction of Community Infrastructure in the Southern Region – eThekweni Municipality	Highly commended	<b>10/54-55</b>
Groutville D Sanitation Scheme	Finalist; iLembe District Municipality	<b>10/58</b>
Hlambanyathi River Bridge	Highly commended; KwaZulu-Natal	<b>10/52-53</b>
Lower Thukela Bulk Water Supply Scheme	Finalist; iLembe District Municipality	<b>10/59</b>
Transport Management Plan for the EcoMobility World Festival	Finalist; Sandton; environmentally friendly and sustainable modes of transport	<b>10/60-61</b>
Upgrade of Main Road 104	Winner; iLembe District Municipality	<b>10/49-51</b>
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<b>SAICE Division Awards for Project of the Year</b>		
<b>(per Division):</b>		<b>10/76-78</b>
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Geotechnical Engineering	Old Mutual Head Office	
Project Management and Construction	Construction of Community Infrastructure in the Southern Region	
Railway and Harbour Engineering	Reconstruction and Deepening of Maydon Wharf Berths 1-4, 13 and 14	

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Structural Engineering	Pacaltsdorp Pedestrian Bridge	
Transportation Engineering	Mokhotlong–Sani Pass Road Project	
Water Engineering	Ingula Pumped Storage Scheme	
<b>SAICE Individual Awards</b>		<b>10/79–82</b>
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Division of the Year	Project Management and Construction Division	
Engineer of the Year	Danie Brink; Danie Badenhorst	
Most Supportive Advertiser of the Year	Knowledge Base (winner); Kaytech (runner-up)	
Student Chapter of the Year	UJ Civils	
Technologist of the Year	Chiedza Mnguni	
Young Engineer of the Year	Gabrielle Wojtowitz	
Young Technologist of the Year	Maanda Muthiwana	
<b>International Projects</b>		
Ada Coastal Protection – Phases 1 and 2	Finalist; Ghana	<b>10/75</b>
Kasane-Kazungula Villages Sanitation Project	Highly commended; Botswana; largest vacuum system	<b>10/65–66</b>
Mokhotlong–Sani Pass Road Project	Winner; Lesotho	<b>10/62–64</b>
Senqu River Bridge	Highly commended; Lesotho	<b>10/67–68</b>
Sonils Quay Wall Extension	Finalist; Angola	<b>10/70–71</b>
South Sudan River Ports	Finalist; UNOPS aid	<b>10/73–74</b>
<b>SAICE-Lafarge Annual Photo Competition</b>		<b>10/83–84</b>
The winning photos	Mall of Africa: F van Jaarsveld (winner)	
	A promise of better days, Stellenbosch Wastewater Treatment Works, CSV Construction: C le Roux (2 <sup>nd</sup> )	

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	Heidelberg Train Bridge: F van Jaarsveld (3 <sup>rd</sup> )	
	Senate Building Project: O Benedict (highly commended)	
	Uitenhage R75 slope stabilisation – erosion control – multicell: R Jacobs (highly commended)	
<b>Technical Excellence Projects</b>		
129 Rivonia Road (Village Walk), Sandton	Finalist	<b>10/28–29</b>
Ashley Drive Break Pressure Tank	Highly commended; Western Aqueduct; Durban	<b>10/18–19</b>
Burgan Cape Terminals Fuel Storage Facility	Finalist; Port of Cape Town	<b>10/38–39</b>
Cleaning of the Tayside High-lift Rising Main to Biggarsberg WTW	Finalist; KwaZulu-Natal; pigging	<b>10/26–27</b>
Construction of the Northern Areas Sewer – Phase 2	Finalist; Cape Town	<b>10/30–31</b>
Discovery Super Basement, Sandton	Finalist; Gauteng	<b>10/35</b>
Ingula Pumped Storage Scheme	Winner; Little Drakensburg mountain range; hydropower; stabilising the south African power system	<b>10/12–15</b>
Old Mutual Head Office, Sandton	Finalist; Gauteng; lateral support	<b>10/34</b>
OR Tambo Gautrain Platform Extension	Finalist; Gauteng	<b>10/22–23</b>
Majuba Coal Silo Recovery Project	Finalist; Mpumalanga	<b>10/32–33</b>
Middelburg Water Reclamation Project	Finalist; Mpumalanga; mine-impacted water	<b>10/42–43</b>
Mooi Mgeni Transfer Scheme, Phase 2	Finalist; KwaZulu-Natal	<b>10/44–45</b>
Reconstruction and Deepening of Maydon Wharf Berths 1–4, 13 and 14	Finalist; Durban	<b>10/46–48</b>
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Rehabilitation of the N2 from Umlaas Canal to EB Cloete Interchange	Highly commended; KwaZulu-Natal	<b>10/16–17</b>
SANRAL Intelligent Transportation System	Finalist; optimising traffic flow	<b>10/24–25</b>
Toyota’s Press Shop Extension	Finalist; Durban; largest press in the southern hemisphere	<b>10/20–21</b>

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Umtshezi Public Transport Facility	Finalist; KwaZulu-Natal	<b>10/36</b>
Steel Awards – a magnificent showcase of world-class work	SAISC; SKA Africa radio antenna positioner; Kirstenbosch Canopy Walkway; House de Clercq and Cottage; Mediclinic Midstream; Kuruman Casino façade; Zinkwazi Beach House; Hennie De Clercq House; Medupi Power Station air-cooled condenser; Value Logistics distribution centre; Multichoice City; peak cap feature on Multichoice City; The Watershed	<b>2/48–63</b>

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Pauline Froschauer	Transportation engineer	<b>5/72</b>
Colleen Jane McCaul	Transportation engineer; Rea Vaya Bus Rapid Transit system	<b>5/72</b>
Graham Lindsay Drury Ross	Road engineer and transportation historian; The Simon van der Stel Freeway; The Blue Route; <i>Romance of the Cape Mountain Passes</i>	<b>1/58–59</b>



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Bryan Edward Tromp	Schwartz Tromp and Associates; geotechnical	<b>3/81</b>
Dr André van Niekerk	Water engineer; Golder Africa	<b>5/71</b>
Dr AAB (Tony) Williams	SAICE Award for Meritorious Research; geotechnical	<b>3/80</b>
<b>SAICE AND PROFESSIONAL NEWS</b>		
Aqualibrium – changing learners’ lives one water competition at a time	Water Competition	<b>8/78–79</b>
Creating a new guide to promote the interpretation and application of ISO 9001: 2015	Quality management	<b>6/79</b>
Disputes Corner – draft regulations on construction adjudication	Mediation; arbitration; industry-wide dispute resolution centre	<b>6/80</b>
DRISA Volunteer Project, The (Digital Rail Images of South Africa)	J Haarhoff; history and heritage; preservations of South African Railways photos; Transnet Freight Rail;	<b>7/64</b>
Establishment of the SAICE Marine Division	K Mackie; advancing the state of the art in commercial ports; assisting the public and municipal sectors upgrade their own coastal engineering capacity	<b>4/88</b>
Industry thanks a man of integrity, The	Nazir Alli, SAICE Gold Medal	<b>1/54–55</b>
Integration of project management skills to manage the fourth-year civil engineering research project	R Haldenwang; V Fester; A Sutherland	<b>5/70</b>
New engineering qualification replacing the BTech degree, A	J de Koker; Bachelor of Engineering Technology (BET)	<b>5/68–69</b>
New SAICE Fellows	Keith Mackie; M A Marutla; Pieter Pretorius; Malan Schrecker; Ric Snowden; Keith Wolhuter	<b>1/56–57</b>
Nominations for election of SAICE 2017 Council		<b>4/84–85; 5/75–76</b>
SAICE International Bridge Building Competition	Brackenfell High School (winner); St John’s College (2 <sup>nd</sup> ); HTS Kimberley (3 <sup>rd</sup> )	<b>11/66–67</b>
SAICE’s dynamic History and Heritage Panel	C Roth; new members and projects to assist in preserving engineering history	<b>2/80</b>
Year-end message from SAICE’s president; May peace, joy and purpose fill you	C Herold; overview of presidential year	<b>11/6</b>

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<b>TRAINING</b>		
Candidate academy grows from strength to strength, The	A Lawless; professional development	<b>1/60–61</b>
SAICE Training Calendar 2016	Induna Training Services; South African Road Federation; Classic Seminars; Candidate Academy; Mentoring 4 Success; Hilti	<b>1/62–64; 2/77–80; 3/85–88; 4/86–88; 5/73–74; 6/83–84; 7/67–68; 8/80; 9/72</b>
SAICE Training Calendar 2017	South African Road Federation; Mentoring 4 Success; Candidate Academy	<b>11/70–72</b>
<b>YOUNG MEMBERS' PAGES</b>		
Did you know? SAICE's YMP in a nutshell		<b>7/65</b>
Think like an engineer	I Singh; National Investigative Showdown winner 2015; carbon footprint of materials; Hotel Verde	<b>9/69–71</b>
YMP on the road again	A Chang; L Sehume; F Mahlangu; roadshows	<b>11/64–65</b>
<b><u>SNAPE MEMORIAL LECTURE 2015</u></b>		
Musings of a professor	M Alexander; municipal engineering; outfall sewers; University of Cape Town; Roberts Construction Co; Profs Ockleston, Jennings, Midgley, Blight; E Hall; V Bolitho; R Reynolds; T Dollery; A Hay; Jupiter cement silo; RILEM; CoMSIRU; civil engineering and its challenges; the state of engineering expertise and engagement; engineers and the engineering process; education of engineers	<b>4/9–16</b>

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Impumelelo – Sasol Mining’s flagship replacement project	R Barker; coal replacement project; design and construction of the 15 000 t Impumelelo and 4 000 t SCS Coal bunkers	<b>2/37–42</b>
Temporary emergency train-carrying bridges	Z Moolla; J Homan; temporary modular bridge deck components; Transnet Freight Rail	<b>2/45–47</b>
<b><u>TRANSPORTATION ENGINEERING</u></b>		
Autonomous Transport – the future is now	G Bampton; D Campbell; W Heyns; Private Rapid Transport; Group Rapid Transport	<b>8/9–16</b>
Demolition of Erasmusrand Pedestrian Bridge	G Jennings; P Piper; A Agaienz; damage as a result of a vehicle collision	<b>8/36–44</b>
Exploring the impact of crime on road safety in South Africa	G Wright; H Ribbens; impact of criminal activities in the road environment	<b>8/64–69</b>
Gautrain Station Extension at OR Tambo International airport	N Featherston; M Wilson; design and construction of extended station platform	<b>8/30–35</b>
Improvements to Ballito Interchange (km 6.66) on National Route 2 Section 27	D Erasmus; R Steenkamp; Z Nene; retrofit type interchange upgrade within a constrained environment	<b>8/48–51</b>
Incrementally launched Senqu River Bridge	G De Simone; Mount Moorosi, Lesotho; passageway for travellers and linking communities	<b>8/46–47</b>
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Social media within global logistics providers – perceptions from the Generation X cohort	E Albanis; C Gaitskill; C Schachtebeck; influence of social media on corporate strategy	<b>8/74–77</b>
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Value creation and capture – a Gautrain case study	S Lombard; R Behrens; F Viruly; transport infrastructure investment	<b>8/58–60</b>

### **THE ENGINEER'S BLIND SPOT**

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