

Civil Engineering 2002

Index



TITLE	Magazine No & Page
Advertorial features	
Towards the Construction Industry Stakeholder Forum	4/36
Around Africa	
New waterfront tourist gateway in Gabon	5/21
Solution to leach erosion at waterfront gateway in Lagos	5/22
Around Amatola	
Clothing the bare bones of science	7/32
Progress at East London IDZ	7/32
Around Pretoria	
Trenchless technology saves costs in Atteridgeville	3/22
Around the Free State	
Science, engineering and technology promoted in the Free State	11/20
Bridge building at SET week	11/20
Tosas supplied bitumen for Free State road rehab project	11/20
Around the Highveld	
Branch news	6/28
Empowering local communities through sport	6/30
Saving water with industrial water purification plants	6/29
Toll road for Highveld	6/28
Around the Northern Cape	
Engineers play a major role in local government development support programme	2/24
Paving the way for SMME contractors	2/23



TITLE	Magazine No & Page
Around North West	
Community rural water supply	9/26
Around the Northern Province	
Flood damage repairs after February 2000 deluge	2/22
Repairs to flood-damaged infrastructure in Kloof Pass	2/22
Around the Western Cape	
Advanced transport monitoring system for Cape Town	3/20
Athlone refuse transfer station	3/18
Bellville South waste disposal site	3/18
Dams made even safer	3/21
Lower Silvermine River flood control scheme	3/19
Port Owen Marina sediment dredging	3/21
Snippets	3/19
Around the Witwatersrand	
Branch news	9/27
Around the World (see also International)	
Artificial white water river for Paris	5/23
Exciting projects in Abu Dhabi	5/23
Giant rotating wheel carries boats between canals	5/24
Grouting Iran's largest concrete dam	5/25
Rubber membranes to secure landfill sites	5/25
Awards	
Bridging borders	5/20
Geotechnical Division awards for 2001	1/27
IAIAsa/EPPIC awards	5/32
Keimoes storm water project a popular winner	11/3
Maguga Dam scoops International Award	10/3
Moddergat River now a community asset	1/7
News flash: Awards	8/3
Nominations for Basil Read Award, 2002	5/19

TITLE	Magazine No & Page
SAICE Awards, Algoa Branch	9/35
Significant leakage reduction through advanced pressure control	9/3
SJD prize scheme for structural engineering students	3/6
The top ten from our 2001 Photo Competition	1/18
Top technikon award for civil engineering student	3/27
Unique interchange at Montecasino	2/2
Water engineering medals awarded to young scientists	2/21
William Craig Award	1/33
Winners of SAICE awards for 2001	9/6

Bookshelf

<i>Blueprints in black and white: the built environment professions in South Africa</i>	6/32
Environmental Engineering Publications	2/24
Geotechnical publications for sale	4/25
SAICE Bookshop says thank you!	11/28
Structural Publications for sale	8/15
Transportation publications for sale	1/27

Centenary

Centenary corner	1/30
2003 Centenary celebration news	8/25
2003 Centenary Celebration news: What's up!	9/33

Comment – see Viewpoint

Communication

Communicating via the Internet and other electronic means (Part 1)	10/32
Communicating via the Internet (Part 2)	11/21
Reaching tomorrow's engineers, technologists and technicians	7/37
Renowned motivational speaker for banquet	2/24
Scenario's for the future (Part 1)	3/25
Scenario's for the future (Part 2)	4/32
Sharing ideas is half the battle won	5/32
The how-to's of communicating with staff	6/31
The right one for the job	2/26

TITLE	Magazine No & Page
Your organisation and the mass media (Part 1)	7/35
Your organisation and the mass media (Part 2)	8/22
Your organisation and the mass media (Part 3)	8/28
Community-based projects	
Community rural water supply	9/26
Keimoes storm water project a popular winner	11/3
Moddergat River now a community asset	1/7
Paving the way for SMME contractors	2/23
Social benefit from road rehabilitation	10/19
Transforming informal settlements to sustainable settlements	2/6
Trenchless technology saves costs in Atteridgeville	3/22
Winterveldt Water Supply Project	2/17
Company Profile/News	
Enhancing environmental awareness	5/18
Reinforced Earth	8/21
Construction	
Construction forging ahead on Durban's beachfront	10/31
Focus on Construction Engineering	5/7
The Civil Industry: Second and third quarter, 2001	3/2001
The construction industry's gift to South Africa	10/36
Towards the Construction Industry Stakeholder Forum	4/36
Cover Feature	
Boardwalk Casino and Entertainment Centre	3/4
InRail Design software now available in South Africa	7/2
Nagle Dam spillwater betterment	6/4
Nova Vida - new life for Luanda	5/4
SA's building, construction and hardware players eye Nigeria's multi-billion dollar building boom	3/24
Discussion forum	
Taking a spin on the Gautrain	7/27
Taking a spin off Gautrain and putting issues in perspective	7/23

TITLE

Magazine No
& Page

Education

Culvert seminar	3/28
Ground improvement seminar a success	1/27
Pipeline Engineering and Hydraulics One Day Course	8/31
SAISC seminar	3/28
Training course in project management	7/36

Employment

Employment wanted	1/32
-------------------	------

Environmental Engineering

Dams made even safer	3/21
Eko Rehab uses gabion structures in asbestos dump rehabilitation	11/19
Enhancing environmental awareness	5/18
Environmental Engineering Publications	2/24
Focus on Environmental Engineering	2/5
Focus on Environmental Engineering	9/7
Port Owen Marina sediment dredging	3/21
Sustainable construction: looking ahead to the World Summit on Sustainable Development	8/5

Focus (special features)

Focus on Construction Engineering:

- Building on a boom 5/14
- Enhancing environmental awareness 5/18
- First trade mission to the UN and the World Bank 5/13
- Has anything changed? 5/17
- Press release by ECSA and associated bodies on structural failures 5/7
- Skills training in the construction industry: where to from here? 5/8
- Success at Hillside 5/13
- Thailand's construction and building product industries come to SA 5/16
- The quarry industry and ready-mix industry 5/19

Focus on Environmental Engineering:

- Dam Funny! 9/17
- EED committee 2/5
- Eutrophication modelling of Hartebeespoort Dam hydrological years 1990/91 9/13

TITLE

Magazine No & Page

to 1998/99

- In-situ capping of fertiliser waste: a case study 9/11
- Magoebaskloof Pass 9/16
- Managed release of saline mine water in the Witbank Dam catchment 9/14
- Message from the chair 2/5
- Minimum requirements for waste disposal: environmental engineers contribute their opinion 2/10
- Molodzwi Dam 2/11
- Revitalising Centurion Lake 2/5
- Sustainability and waste management 9/9
- Sustainability in the Built Environment Profession 9/15
- The Rob Laburn Award 2001 9/7
- Transforming informal settlements to sustainable settlements 2/6

Focus on Geotechnical Engineering

- Bank of Mauritius foundation contract 4/28
- Deep basement for ABSA in Cape Town 4/29
- Esor and Frankl joint venture extends Nedcor complex 4/29
- Geotechnical aspects of the NHRBC Guidelines 4/25
- Geotechnical investigations carried out for Sasol's natural gas pipeline project 4/11
- Geotextile produced from old cool drink bottles 4/24
- Heap leach facilities - a brief world tour 4/5
- Innovative solution for a Kei Cutting problem 4/15
- Kruger Mpumalanga International Airport a challenging project 4/11
- Large-diameter flexible steel pipe response to handling, transportation, backfilling and vehicular loads 4/8
- Mozal smelter expansion 4/3
- New Skyway system for Johannesburg International Airport 4/20
- New tunnel ensures safe water for rural KwaZulu-Natal 4/23
- Obituary William Ronald Mackechnie 4/25
- Rehabilitation of Avenue Julius Nyerere in Maputo 4/26

Focus on Information Technology

- Digital signatures arrive! And MicroStation V8 is e-ready 11/13
- Hydraulic modelling with Epanet 11/15
- Information and information archiving 11/7
- IT symposium 11/5
- Message from the IT Division chairman 11/5
- The argument for an integrated digital design data platform across multiple 11/9

TITLE

Magazine No & Page

disciplines

- VSAT - the only technology for rural Africa 11/5
- Work and technology excellence gives SA engineering companies the edge 11/16

Focus on Railway and Harbour Engineering

- COALink aan die voorpunt van wisseltechnologie 7/5
- Ermelo Yard upgrade project 7/18
- Launch of Speno rail profiling machine 7/19
- Microstation and InRail help COMSA speed its Spanish high-speed rail project to success 7/2
- Performance-based contracts - the basis for a win-win situation for the Railways and the contractor 7/13
- Rail replacement on the COALline 7/9
- Rail wear life prediction model 7/15
- Rehabilitation of the Djibouti-Ethiopia railway 7/11
- Spoornet sets a new standard on rail maintenance 7/10

Focus on Structural Engineering

- JSD committee 2002 3/6
- Interim guidance on permanent grandstands 3/6
- SJD prize scheme for structural engineering students 3/6
- Structural steel priced bills of quantities: new method of measurement 3/8
- Pretoria engineer first person to be scrapped from ECSA professional register for misconduct 3/10
- Findings of the thirteenth report of the Standing Committee on Structural Safety 3/14

Focus on Transportation Engineering

- A winner on the road 1/25
- Achievements in Cape Town 2001/2002 10/20
- Activities In the Institute for Transportation Technology at the University of Stellenbosch 10/18
- Chairman's luncheon 1/9
- Focus on the N3 10/11
- Gautrain Rapid Rail Link on track with MXRail 10/22
- How can fleet managers contribute to the reduction of accidents? 1/11
- Knowledge management tool for the transportation industry 1/23
- New Committee 1/9
- Pothole patching just got easier! 10/23

TITLE

Magazine No & Page

- Products for rapid road surfacing and maintenance 1/26
- Profile of the Asphalt Academy 10/23
- Rail transport planning on track in Gauteng 1/13
- Resourceful SA technology for better roads 1/24
- SAICE lecture series 2001 1/23
- Social benefit from road rehabilitation 10/19
- South African traffic signals change with the times 1/15
- Transport, logistics and supply chain management 1/16
- Transportation centres of development 10/17
- Transportation publications for sale 1/27
- Use of roundabouts as intersections in urban areas: case study 1/20

Focus on Water Engineering

- Climate change - is there need for concern? 6/8
- Desalination of sea water being investigated 6/15
- Flood prediction model for the lower reaches of the Kuils/Eerste rivers 6/9
- Improving the community's health and environment 6/17
- Mozambique, Limpopo River floods 6/12
- Quenching Limpopo Province's thirst 6/13
- Reduce risk in gravity drainage pipelines - use rigid concrete pipe 6/21
- Table Mountain Group Aquifer 6/11
- Unique flood control gates 6/15

Focus on the World Summit

- African Energy Fund for African Development 8/4
- Sustainable construction: looking ahead to the World Summit on Sustainable Development 8/5
- The national water and sanitation programme: turning the "right to water" into reality 8/10

Geotechnical Engineering

- Geotechnical Division awards for 2001 1/27
- Ground improvement seminar a success 1/27
- Soil improvement in the Namibian desert 1/29
- Frankl wins foundation contract at Toyota 1/30
- Focus on Geotechnical Engineering 4/3
- Geotechnical publications for sale 4/25

TITLE	Magazine No & Page
The first African Young Geotechnical Engineers Conference	5/31
The story of the Trust Bank basement in Johannesburg	10/25
Obituary to Ruben Stander	10/28
Gijima	
Gijima	1/36
Gijima	2/36
Gijima	3/31
Gijima	4/40
Gijima	5/36
Gijima	6/36
Gijima	8/32
Gijima	9/36
Gijima	11/32
History	
200 years!	9/35
Dams - the Good, the Bad and the Beautiful	9/19
From our Past	8/23
Memorial for Putt Bridge in Port Alfred	10/37
The story of the Trust Bank basement in Johannesburg	10/25
The story of the Trust Bank basement in Johannesburg	10/25
In lighter vein	
Dam Funny!	9/17
Noah in the 21 st	1/30
International	
Bank of Mauritius foundation contract	4/28
Focus on the World Summit	8/4
Geotechnical investigations carried out for Sasol's natural gas pipeline project	4/11
Heap leach facilities - a brief world tour	4/5
Maguga Dam scoops International Award	10/3
Microstation and InRail help COMSA speed its Spanish high-speed rail project to success	7/2
New waterfront tourist gateway in Gabon	5/21

TITLE	Magazine No & Page
Rehabilitation of the Djibouti-Ethiopia railway	7/11
Rehabilitation of Avenue Julius Nyerere in Maputo	4/26
SA's building, construction and hardware players eye Nigeria's multi-billion dollar building boom	3/24
Travels in South America	2/35
Visit to ASCE	3/29

IT

Call for delegates/papers: Knowledge Integration for Engineers	6/22
Focus on Information Technology	11/5
Information technology for civil engineering at the US	11/29
InfoTime - the professional desktop	6/27
InRail Design software now available in South Africa	7/2
IT Newsletter	6/23
Liberty Tunnel Interchange, Pittsburgh	6/25
Local civil engineering designers unrestricted by northern hemisphere-centred co-ordinates	6/23
Microstation and InRail help COMSA speed its Spanish high-speed rail project to success	7/2

Letters - see Stop and listen

Obituaries

Huldeblyke/Obituaries: Charl v d Merwe, Prof André Coetsee	11/30
Obituary Ludovic Hersch	4/38
Obituary Ruben Stander	10/28
Obituary William Ronald Mackechnie	4/25

Product News

A model approach to structural engineering	8/17
A winner on the road	1/25
Bridging borders	5/20
Digital signatures arrive! And MicroStation V8 is e-ready	11/13
Gautrain Rapid Rail Link on track with MXRail	10/22
Hydraulic modelling with Epanet	11/15
InfoTime - the professional desktop	6/27
InRail Design software now available in South Africa	7/2

TITLE	Magazine No & Page
Kaytech helps maintain the Cape's beauty	11/19
Knowledge management tool for the transportation industry	1/23
Launch of Speno rail profiling machine	7/19
Local civil engineering designers unrestricted by northern hemisphere-centred co-ordinates	6/23
Microstation and InRail help COMSA speed its Spanish high-speed rail project to success	7/2
Modelling versus drawing	8/19
Pothole patching just got easier!	10/23
Products for rapid road surfacing and maintenance	1/26
Resourceful SA technology for better roads	1/24
Turns, returns and compliance	7/31
What are your drawings worth?	11/17

Project News

Achievements in Cape Town 2001/2002	10/20
Boardwalk Casino and Entertainment Centre	3/4
Bayside Aluminium - problem solved	8/20
Eko Rehab uses gabion structures in asbestos dump rehabilitation	11/19
Ermelo Yard upgrade project	7/18
Frankl wins foundation contract at Toyota	1/30
Keimoes storm water project a popular winner	11/3
Kruger Mpumalanga International Airport a challenging project	4/18
Liberty Tunnel Interchange, Pittsburgh	6/25
Magoebaskloof Pass	9/16
Maguga Dam scoops International Award	10/3
Microstation and InRail help COMSA speed its Spanish high-speed rail project to success	7/2
New leachate lagoon ends waste spilling risk	11/17
New Skyway system for Johannesburg International Airport	4/20
Soil improvement in the Namibian desert	1/29

Profile

New SAICE president loves a challenge	1/4
No-nonsense man with a practical approach	4/30

TITLE

Magazine No & Page

Quotable Quotes

200 years! 9/35

SAICE and professional news

200 years! 9/35

2003 Centenary Celebration news: What's up! 9/33

An update on standardisation, simplification and uniformity in procurement documents 7/39

Another fervent appeal! 10/40

ASCE names new executive director 8/30

At the Awards banquet 9/32

Begroting en ledegeld 9/32

Bridge building competition 4/37

BTT 2003 nomination form/RTT 2003 nominasievorm 8/28

Budget and subscription notification 8/30

Built Environment Professions Convention: 1-3 May 2002 2/33

Cape Industrial Trade Show in May 3/28

Celebrating the 21st century in the new South Africa 11/26

Centenary corner 1/31

Centenary news 10/38

Coming events 1/33

Coming events 5/31

Coming events 8/312

Coming events 10/36

CPD policy statement 2/31

Culvert seminar 3/28

Delivering sustainable development 6/33

ECSA and SAICE and the identification of engineering work: the Civils Story 11/24

Employment wanted 1/32

Engineering and Technology session at WSSD 9/30

Environmental Engineering Publications 2/24

Essay topics 2002: helpful hints 5/29

Exciting innovation at bridge building competition 6/35

Heritage Day celebrated 10/35

Highlights from the president's diary 11/26

Huldeblyke/Obituaries: Charl v d Merwe and Prof André Coetsee 11/30

IAIAsa/EPPIC awards 5/32

TITLE	Magazine No & Page
Implications of the Engineering Profession Act, 2000	2/30
Industry congratulates Minister Sicgau on budget spent	6/34
Industry news: New precast concrete culvert design and fill height tables	4/39
Information technology for civil engineering at the US	11/29
Infrastrukturoriënteringsprogram vir raadslede: "Sustainable Infrastructure for African Towns and Cities"	10/35
Integration of technicians and technologists into SAICE since the SAICE-SAICET merger	5/30
Member's banquet	4/34
Memorial for Putt Bridge in Port Alfred	10/37
Memory of pioneering civil engineer will live on in talented Wits learners	10/40
New Fellows/Nuwe Genote	4/39
New Fellows/Nuwe Genote	5/35
Nominations for election of Council for 2003	5/34
Obituary Ludovic Hersch	4/38
Past president visits ICE and IstructE	4/38
Pipeline Engineering and Hydraulics One Day Course	8/31
President's Diary: October-December 2001	1/35
Railways and Harbour keep SPBS on track	4/37
Reaching tomorrow's engineers, technologists and technicians	7/37
Renowned motivational speaker for banquet	2/24
Reviewers' workshops	8/30
SAICE 2003 essay topics for professional registration	11/23
SAICE and Sustainable Development	3/31
SAICE and the built environment professions commit themselves to poverty alleviation	8/30
SAICE assist in skills development and capacity building for local authorities	4/37
SAICE Awards, Algoa Branch	9/35
SAICE Bookshop says thank you!	11/28
SAICE Congress 2003: Spanning a century - Launching into the future	11/28
SAISC seminar	3/28
Securing experiential training for civil engineering students	11/27
Short Term Engineering Personnel	7/44
Student chapter in Algoa	11/29
The construction industry's gift to South Africa	10/36
The first African Young Geotechnical Engineers Conference	5/31
The SAICE Board of Technicians and Technologists Geometric design guideline	8/30
The top ten from our 2001 Photo Competition	1/18
Top technikon award for civil engineering student	3/27

TITLE	Magazine No & Page
Towards the Construction Industry Stakeholder Forum	4/36
Training course in project management	7/36
Travels in South America	2/35
Views of the Engineering Profession in South Africa	9/31
Visit to ASCE	3/29
William Craig Award	1/33

Stop and listen/Hoor bietjie hier

News flash: Awards	8/3
Stop and listen/hoor bietjie hier	1/3
Stop and listen/hoor bietjie hier	8/3
Stop and listen/hoor bietjie hier	11/2

Structural engineering

A model approach to structural engineering	8/17
Bayside Aluminium - problem solved	8/20
Focus on structural engineering	3/6
Improvements to the safety of tall buildings following September 11	8/15
Modelling versus drawing	8/19
Structural publications for sale	8/15

Transportation

Advanced transport monitoring system for Cape Town	3/20
Focus on Railway and Harbour Engineering	7/2
Focus on Transportation Engineering	1/9
Focus on Transportation Engineering	10/11
Kei Cuttings now open	5/28
Pull-away: Newsletter of the SAICE Transportation Division	5/28
Taking a spin off Gautrain and putting issues in perspective	7/23
Taking a spin on the Gautrain	7/27
The debate: leading versus lagging green	7/27
Traffic calming: the experience of 42 local authorities in South Africa	7/29
Transportation publications for sale	1/27
Turns, returns and compliance	7/31

TITLE

Magazine No & Page

Viewpoint

A tale of two towers	6/3
How safe are our buildings?	3/3
Recent structural failures at shopping centres in Pretoria	5/3
Reservation of work - Klip in die bos - A shot in the dark	9/2

Water Engineering

Community rural water supply	9/26
Conference news	2/15
Dams - the Good, the Bad and the Beautiful	9/19
Dams made even safer	3/21
Flood damage repairs after February 2000 deluge	2/22
Focus on Water Engineering	6/8
Integrated water resource planning	2/15
Knysna Raw Water Supply Augmentation Scheme	9/25
Managing unaccounted-for water in potable water distribution systems: latest software developments through the Water Research Commission	2/13
Moddergat River now a community asset	1/7
Port Owen Marina sediment dredging	3/21
The national water and sanitation programme: turning the "right to water" into reality	8/10
The standard design flood	2/20
Water engineering medals awarded to young scientists	2/21
Winterveldt Water Supply Project	2/17