

CURRICULUM VITAE: KIM JONATHAN JENKINS

Nationality South African
Year of Birth 1962
Profession Civil Engineer
Specialisation Pavement Engineering with Geotechnical background
Present position Professor of Civil Engineering
SANRAL Chair in Pavement Engineering, Stellenbosch Univ.
Languages English, Afrikaans, some Zulu & Dutch

Marital Status

Wife Kathryn Jenkins
Children Anton Born 1983
Nicholas Born 1989
Julia Born 1991

Key qualifications

- *Pavement Engineering* : Research and lecturing in pavement materials with specialisation in granular and foamed bitumen and emulsion treated materials, design of new road pavement structures and rehabilitation design, materials utilisation, recycled materials, geometric and drainage design, as well as site supervision of freeway construction
 - *Geotechnical Engineering* : site investigations through to foundation design
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Education and Professional Status

<i>Educational Institution</i>	<i>Qualifications</i>	<i>Date</i>
Marist Brothers College	Senior Certificate (Schooling)	1979
University of Natal	BSc (Eng)	1983
University of Natal	MSc (Eng)	1995
Univ. of Stellenbosch	PhD (Eng)	2000

Post Graduate Courses

<i>Educational Institution</i>	<i>Post-graduate courses</i>	<i>Date</i>
University of Natal	Geotechniques	1990
University of Natal	Pavement Materials	1991
University of Natal	Pavement Design	1991
University of Natal	Environmental Engineering	1991
University of Natal	Residual & unsaturated soils	1992
Univ. of Witwatersrand	Waste disposal systems	1992
University of Natal	Foundation design	1993
Univ. of Nottingham	MSc Module 1: Flexible Pavements	1994
Univ. of Stellenbosch	Advanced Asphalt Design School	1996
Univ. of Stellenbosch	Advanced Asphalt Technology School	1996
Univ. of Stellenbosch	Advanced Pavement Design School	1997
Univ. of Stellenbosch	Advanced Course on Pavement Evaluation	1997
Univ. of Stellenbosch	Construction Management Programme	1997
Univ. of Stellenbosch	Airport Planning Course	1997
Univ. of Stellenbosch	Pavement Management School	1997
Univ. of Stellenbosch	Advanced Course in Bitumen Technology	1998
Univ. of Stellenbosch	Flexible Pavement Design School	1998
Univ. of Stellenbosch	Stone Mastic Asphalt Course	1998

Societies and Committees

AAPT Association of Asphalt Paving Technologists, USA: Member (2000 – present)

AAPT Association of Asphalt Paving Technologists, Emmons Award Committee (2007)

Agrément Committee on Patching Mixes: Chair of Committee for Establishing Accreditation Guidelines (2007 -2009)

ARC Asphalt Research Consortium, USA (Three Universities and two Research Institutes). Advisory Group Member (2008)

ASAC (Asphalt Academy): Member of Advisory Panel, (2006 – 2007)

ASCE Geo Institute - Editor of Geotechnical Special Publication No. 191 for GeoHunan (2009)

CAPSA '04 (Conference on Asphalt Pavements for Southern Africa)
Chairperson of Technical Committee & Member of Steering Committee, (2004)

CAPSA '07 and 2011 (Conference on Asphalt Pavements for Southern Africa)
Member of Steering Committee and Technical Committee, (2007 and 2011)

EATA European Asphalt Technologies Association Conference in Parma, Italy (2010): Member of Scientific Committee (2008 – 2009) Braunschweig, Germany 2013

ECSA (Engineering Council of South Africa): Registered Professional Engineer: ECSA N^o. 900540

E&E (Eurobitume and Eurasphalt Congress): Member of Scientific Committee (2003, 2007 – 2008)

E&E (Eurobitume and Eurasphalt Congress): Member of Scientific Committee (2007 – 2008)

GeoHunan International Conference China, Member of Organising Committee and Session Chair, (2007 – 2009)

ICACPSEM (International Conference on Advanced Characterisation of Pavement and Soil Engineering Materials), Athens, Greece, Member of Scientific Committee (2005 – 2007) and Invited Session Chair

International Symposium on Asphalt Pavements and Environment (2nd in 2012) Member of Steering Committee

IJRMPD (International Journal of Road Materials and Pavement Design): Review Board Member (2007)

IJRMPD (International Journal of Road Materials and Pavement Design): Member of Editorial Board (2008) Guest Editor Special Issue on Cold Recycling (2011 – 2012)

ISAP (International Society of Asphalt Pavements): Member of Scientific Committee for ISAP Zurich 2008 (2006 – present)

ISAP (International Society of Asphalt Pavements): Chairman of Working Group 2 on Cold Recycling of RAP (2009 – present)

ISAPT II Kuala Lumpur: Invited Session Chair & Moderator (April 2004)

NCHRP (National Coordinator of Highway Research Program) of NAS (National Academy of Sciences), USA: Invited Panel Member for Warm Mix Research 09-47, (2007 - present)

PIARC International Committee 7/8 Member: Recycling of Road Pavements

PRAC Pavement Research Advisory Committee on Roads Infrastructure Research (2004 – present)

RPF (Road Pavements Forum): Skills Development Task Group: Representative of Higher Education and Training (2001 – 2003, 2007 – present)

RPF (Road Pavements Forum): Foamed Bitumen Committee 2001 - 2002

RPF (Road Pavements Forum): Accelerated Pavement Testing APT Steering Committee Member (2001 – 2008)

RPF (Road Pavements Forum): Chair of Working Group on Binder Specifications for South Africa, (2004 – 2007)

RPF (Road Pavements Forum): Pavement Design Task Group (2005)

RPF (Road Pavements Forum): TG1 Task Group on Modified Binders, (2006 – 2007)

RILEM Symposium Europe: Member of Technical Committee (2003 – Pres) Member TG6 (2011-2012)

RILEM Symposium Europe 2003 & 2009: Invited Chair of Technical Session

SAICE (South African Institute of Civil Engineers): Member

SAT (Society for Asphalt Technology): Founder Member

SAT (Society for Asphalt Technology): Fellow FSAT),(May 2002)

SAT (Society of Asphalt Technology) Southern Region: Technical Portfolio 1997-1999, Education & Training Portfolio (2001-2002)

SAT (Society for Asphalt Technology): National Moderator, Asphalt Testers Courses (ATC) (1998 – 2003)

SusCoM2010. Sustainable Construction Materials. Member of Scientific Committee (2009 – 2010)

SusCoM2012. Sustainable Construction Materials Co-Chairman (2011-2012)

TRB International Committee, Member (2006 – present)

Awards & Bursaries (tertiary level)

- CAPSA-Colas Bursary 1996 to 1998 for research into bituminous materials sponsored by the Conference on Asphalt Pavements for Southern Africa and Colas (Pty) Ltd.
- Harry Crossley Bursary at University of Stellenbosch 1999
- Reitz Medal for Best Post Graduate Student in Civil Engineering at the University of Stellenbosch in 2000.
- SAICE Transportation Division Award for best research publication in 2001
- Walter J. Emmons Award for the best paper presented at the 2002 Association of Asphalt Paving Technologists Annual Meeting (Journal Publication), USA
- Rector's Award for Outstanding Research, Stellenbosch University, 2009

Experience record

Jan 2001 to date : University of Stellenbosch : SANRAL Chair in Pavement Engineering : Associate Professor (2001 - 2003), Professor (2003 – present)

- Incumbent of the Chair in Pavement Engineering at the University of Stellenbosch funded by the South African National Roads Agency Limited (SANRAL).
- Rated B3 Researcher by National Research Foundation NRF, South Africa.
- Responsible for undergraduate and post-graduate lecturing, managing research projects. Two to four post-graduate courses presented in collaboration

with international and local experts in pavement engineering each year with 20 to 50 delegates from industry and from post-graduate student registrations. Rated as B-3 Scientist by National Research Foundation NRF, South Africa.

- Advisor for the South African National Roads Agency on technical issues regarding new technologies, problem areas in pavement engineering and procedural matters.
- International networking with Research Institutions: MOU with Delft University of Technology (Professor André Molenaar appointed as visiting professor to University of Stellenbosch) and Professor Martin van de Ven, University of Wisconsin-Madison (Professor Hussain Bahia), University of California at Davis (Professor John Harvey), MOU with Wuhan University of Technology, China (Professor Shaopeng Wu), University of Texas at Austin and A&M USA, National Centre for Asphalt Technology NCAT USA, and University of Waterloo Canada (Professor Susan Tighe).
- International networking with Pavement Specialists: Wirtgen GmbH (recycling technology advisor), Goldschmidt Germany (research of foamant products), Koch USA (research of bitumen emulsions), DWW The Netherlands (technical advisor for Dutch research into half-warm foamed bitumen technology developed by KJ Jenkins) and Westvaco USA (research of bitumen emulsions).
- International student exchange with doctoral and masters students from University of Bochum, Germany and Delft University of Technology, The Netherlands (see list in academic output)
- Detailed activities provided in attached report.

Sept 1999 to Dec 2000 : Delft University of Technology, The Netherlands :
Universitair Docent

- More than one year spent investigating half-warm foamed bitumen, a new process developed as part of my PhD. The investigation was carried out at the invitation of TU Delft, in collaboration with the University of Stellenbosch and Dutch contractors, financed with European funding. Awarded the prize for the best post-graduate student at the University of Stellenbosch in 2000.
- In addition, supervision of several Masters Degree students carrying out research in pavement engineering, as well as appointment as a member of the Graduation Committee to these students.
- The duties also included some lecturing at IHE University (in English) and Delft University of Technology (in Dutch) in pavement engineering. Both these institutions are situated in Delft.

Sep 1996 to Aug 1999 : University of Stellenbosch : Research Engineer

- Researcher in pavement engineering at the Institute for Transport Technology at the University of Stellenbosch. Holder of the CAPSA-Colas bursary from October 1996 to October 1998. Research focussed on bituminous cold mixes, including bitumen emulsions and foamed bitumen, for a PhD entitled “ Mix design considerations for Cold and Half-warm Bituminous Mixes with emphasis on Foamed Bitumen”.

- Lecturing of undergraduate courses at the university in a part-time capacity, including a locum for half of the final (fourth) year Vervoerleer 414 course. Setting and marking of examinations included in these duties.
 - Lecturing by invitation for the Society for Asphalt Technology at KwaZulu Natal and Peninsula Technikon and South African Road Federation at Port Elizabeth Technikon.
 - Assistance with post-graduate courses in pavement engineering presented at the University of Stellenbosch, particularly with pavement analysis and design on computer, laboratory practicals and tutorials.
 - Supervision of selected post-graduate research in pavement engineering, including an exchange student Lucas Jan Ebels from Delft University of Technology, resident in Stellenbosch for eight months.
 - Contract research for the roads industry including modelling of granular base material behaviour for highly trafficked roads, investigation of asphalt mixes for the Ceres Dam core using triaxial testing, accelerated pavement testing (APT) of a recycled foamed bitumen and emulsion treated layer, and others.
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Aug 1994 to Aug 1996: A A Loudon & Partners: Associate

- Materials and Pavement Engineer involved in the design of new roads, including visual assessment and rehabilitation investigation of 250 kilometres of road in North Africa, centreline materials investigation and utilisation for provincial road MR 415, and rehabilitation design of existing roads, MR 235 near Hlabisa in KwaZulu Natal, South Africa.
 - In particular, carrying out materials investigations and laboratory mix designs for foamed bitumen, using marginal and recycled materials as part of consulting for contractors and client bodies.
 - Research of performance of deep, cement and emulsion treated layers constructed using in situ single pass stabilisation (MSc Dissertation). Investigation commissioned by the Department of Transport and Natal Roads Department and carried out in collaboration with the CSIR.
 - Consulting on several continents i.e. Africa, Europe and East Asia, with specialisation in road rehabilitation and especially cold in place recycling. This work included pavement investigations and design as well as consultation for contractors, on behalf of Wirtgen GmbH.
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Aug 1993 to Aug 1994: A A Loudon & Partners: Resident Engineer

- Heading the administration and site-supervision of a Department of Transport contract involving the rehabilitation of 25 kilometres of National Route (N2/21) near Kokstad in East Griqualand, KwaZulu Natal. Layerworks included deep in situ single-pass stabilisation to a depth of 300mm using primarily cement but also bitumen emulsion, overlain by asphalt base and surfacing layers. The rehabilitation works were carried out with traffic accommodation in half-widths.
 - Research testing was carried out during the contract using multi-depth deflectometers, surface deflection measurements, plate load tests and laboratory testing amongst other methods.
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Aug 1990 to Aug 1993: A A Loudon & Partners: Geotechnical Engineer

- Materials and geotechnical site investigations for major roads, residential, township and factory developments for various clients including Natal Roads Department, Kwa Zulu Finance and Investment Corporation and Grinaker Projects.
- Centreline soil surveys for new urban arterials (Newlands East Link Road, Durban) and major provincial roads including analysis and recommendations for the utilisation of the materials as well as pavement design alternatives, slope stability analysis, retaining wall design and the production of materials reports.
- Geotechnical investigations including borehole drilling for new road alignment, bridge sites and commercial developments.
- Investigations and design of new landfill sites and the rehabilitation of existing landfill sites. In 1990, registration at University of Natal for part-time study of MSc (Eng), which endured until 1995.

Aug 1988 to Aug 1990: De Leuw Cather Inc: Site Engineer

- Construction of National Route N2/26 from Umhloti to Tongaat (9,5km) dual carriageway new four-lane freeway (Department of Transport) – responsible for quality control of bulk earthworks, layerworks and drainage, measurement of quantities and contract administration.

May – Aug 1988: De Leuw Cather Inc: Resident Engineer

- National Route Road Signs contract for the Department of Transport, between Ballito and New Guelderland – responsible for quality control, measurement and administration of the contract.

Apr 1987 to Aug 1988: Consulting Engineer with De Leuw Cather Associates

- Projects include National Route N2/26 Umhloti to Tongaat and Tongaat to Ballito, MR108 Elandsplaagte to Ballengeich and Flood Damage Assessment in 1987. Work performed included geometric design (roads), stormwater drainage and survey.
- Clients included: Department of Transport and Natal Roads Department, Durban

Sep 1986 to Dec 1986: Freelance site work (in SA and abroad) and overseas travel

- Travelled Europe and the United Kingdom. Several months spent working for Kerryredd, an Engineering Agency, on structural sites in the London area. Work included survey, quality control and measurement.

Jan – Feb 1986: S. Jefferies: Assistant Surveyor

- A 99-year lease survey of properties in Koppies Township.
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Jan 1984 to Dec 1985: Engineers Corps, South African Defence Force: Officer

- Compulsory National Service. In the second year lectured civil engineering subjects to permanent force officers as part of their promotional courses.
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Jan 1980 – Dec 1983: Full-time student at the University of Natal.

- Studying for B.Sc (Eng), a four year degree.
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ACADEMIC OUTPUT

Study Leader and Supervisor of Post-Graduate Degrees Completed

Burger AF. *Rheology of Polymer Modified Bitumen*. MSc(Eng) thesis. University of Stellenbosch. 2001

Smit A de Fortier. *PAVDAM – Probabilistic and Volumetric Design of Asphalt Mixes*. PhD (Eng) dissertation. University of Stellenbosch. 2002

Douries WJ, *Factors Influencing Asphalt Compactibility and its Relation to Asphalt Rutting Performance*. MSc (Eng) thesis. University of Stellenbosch. 2003. Pp 239

Milne TI, *Towards a Performance Related Seal Design Method for Bitumen and Modified Road Seal Binders*. PhD (Eng) dissertation. University of Stellenbosch 2004. Pp 365

Malubila SM, *Curing of Foamed Bitumen Mixes*. MEng thesis. University of Stellenbosch 2005. Pp 89

Twagira EM, *Characterisation of Fatigue Performance of Selected Cold Bituminous Mixtures*, MSc (Eng) thesis, University of Stellenbosch 2006, Pp 247.

Cilliers J.A. *Towards a Rational Volumetric Cape Seal Design Method*. MEng thesis. University of Stellenbosch 2006. Pp 157

Munyagi, A.A. *Evaluation of Cold Asphalt Patching Mixes*. MEng thesis. University of Stellenbosch 2006. pp 112

Ebels, L-J. *Characterisation of material properties and behaviour of cold bituminous mixtures for road pavements*. PhD (Eng) dissertation. University of Stellenbosch 2007. Pp

Gentz J. *A Comparative Analysis of Deflection Measurement Techniques for Roads, using the Falling Weight Deflectometer and Deflectograph*. MEng thesis. University of Stellenbosch 2007

Madsen-Leibold, S. *An evaluation of factors influencing gravel road performance and verification of current performance-related specifications for gravel wearing course*. MEng thesis. University of Stellenbosch 2008.

Kelfkens R.F.C. *Vibratory Hammer Compaction of Bitumen Stabilised Materials*. MScEng thesis. University of Stellenbosch 2008.

Mulusa W.K., *Development of a Simple Triaxial Test for Characterising Bitumen Stabilised Materials*. MScEng thesis. University of Stellenbosch 2008 (March 2009)

Twagira E.M., *Influence of Durability Properties on Performance of Bitumen Stabilised Materials*. PhD (Eng) dissertation. University of Stellenbosch 2010

Moloto P.K., *Accelerated Curing Protocol for Bitumen Stabilised Materials*. MScEng thesis. University of Stellenbosch 2010.

Mtambalika D.T. *Conversion between Visual TMH9 Data and HDM4 Data*. MEng thesis. University of Stellenbosch 2011

Mbaraga A.N. *Performance of warm mix asphalt: Flexural modulus and fatigue resistance*. MEng thesis. University of Stellenbosch 2011

Gerber J.A.K. *Characterization of Cracks in UTCRCP*. MScEng thesis. University of Stellenbosch 2011

Tothela T. *The Effect of Precoating Surfacing Seal Aggregates*. MEng thesis. University of Stellenbosch 2011

Silanda D. *Analysis of Pavement Surface Deterioration in Western Cape Province Road Network*. MEng thesis. University of Stellenbosch 2011

Arlow J.E.A. . *The effect of ineffective compaction techniques when applied to asphalt pavements, on the durability of the pavements*. MEng thesis. University of Stellenbosch 2011

Rubuluza B. *The use of Gypsum Blocks to measure suction pressure in relation to grading of a crushed base material*. MEng thesis. University of Stellenbosch 2011

Van Eyk O. *The use of ferrochromium slag in bituminous surfacing seals*. MEng thesis. University of Stellenbosch 2011

Redivo S. *Correlation between the Laboratory and field Permeability of Asphalt surfacing*. MEng thesis. University of Stellenbosch 2012

Van der Walt S. *Resilient Modulus and Fatigue Performance of Warm Mix Asphalt surfacing mixtures at Higginson Highway trials*, MEng thesis. University of Stellenbosch 2012

Ndolvu P. X. A., *An Evaluation of Cement Types and Stabilised Materials*. MEng thesis. University of Stellenbosch 2012

Greyling A.H., *Development of a Standard Test Method for Determining the Bitumen Bond Strength of Emulsions – A South African Perspective*. MScEng thesis. University of Stellenbosch 2012

Bosman-Gertenbach N. MEng 2012

Nieftagodien R. MScEng 2012

Chilukwa, N MScEng 2012

Asiimwe A MScEng 2012

Van den Heever, J. MScEng 2013

Ngassa P. MScEng 2013

External Supervisor of Degrees Completed

Masondo PT. *Further Development of Twinlay Porous Asphalt Surfaces*. MTech Thesis, Peninsula Technikon, Cape Town, 2000

Weston CT. *A Study into the Mechanical Properties of Foamed Bitumen Treated Materials*. MTech Thesis, Peninsula Technikon, Cape Town, 2001

Robroch S. *The Use of Foamed Bitumen or Bitumen Emulsion and Cement in Cold Mix Recycling*. MSc(Ing) Thesis, Delft University of Technology, Delft, The Netherlands 2002

Internal Examiner

Burger AF. *Scheduling Algorithms for Routine Maintenance of Roads in Maintenance Wards of a Gravel Road Network*. University of Stellenbosch 2004

Barkhuizen, P. *Transportation Planning and Traffic Engineering*. MEng Thesis, University of Stellenbosch University, 2005

Hermant, L., *Morning Peak Period Travel Characteristics of a Residential Suburb in Cape Town during a School and Holiday Period: What lessons can we learn?* MScEng Thesis, University of Stellenbosch University, 2007

De Vos E., *Performance Characterisation of Cement Treated Sand Base Material in Mozambique*. MScEng Thesis, University of Stellenbosch University, 2007

External Examiner

Morton BS. *The Foamability of Tar and Engineering Properties of Foamed Tar Mixes*. MEng Thesis, University of Pretoria 2001

Morkel, L. *The Development of a GIS-Based Pavement Management System for Use at a Local Level*. MSc(Eng) Thesis, University of Cape Town 2002

Fortune, GL. *People First through Sustainable Development*. MEng Thesis, University of Stellenbosch University, 2005

Medani T.O.. *Design Principles of Surfacing on Orthotropic Steel Bridge Decks*. PhD (Eng) Dissertation. Delft University of Technology. 2006

Muraya P.M.. *Permanent deformation of Asphalt Mixes*. PhD (Eng) Dissertation. Delft University of Technology. 2007

Hagos E.T., *The Effect of Aging on Binder Properties of Porous Asphalt Concrete*. PhD (Eng) Dissertation. Delft University of Technology. 2008

Gonzalez A., *An experimental study of deformational characteristics and performance of foam bitumen pavements*. PhD (Eng) Dissertation. University of Canterbury, Christchurch, New Zealand, 2009

Araya A.A. *Characterisation of Unbound Granular Materials for Pavements*. PhD (Eng) Dissertation. Delft University of Technology. 2011

International Co-operation : Exchange Student Activities as Study Leader or External Supervisor

Stoppka B, PhD(Eng) candidate from Ruhr Universitat Bochum, Germany. Spent 1,5 months at University of Stellenbosch researching foamed bitumen. November to December 2001.

Milne T, PhD(Eng) candidate from University in Stellenbosch. Spent 1,5 months at Delft University of Technology for specialist finite element analysis with CAPA 3D as part of doctoral research. February to March 2002.

Robroch S, MSc (Ing) candidate from Delft University of Technology. Spent 9 months at University of Stellenbosch carrying out research towards his masters thesis (also in co-operation with CSIR, arranged by KJ Jenkins). April 2001 to December 2001.

Groenenwegen R, MSc(Ing) candidate from Delft University of Technology. Spent 2 months at University of Stellenbosch carrying out “stage” practical towards his degree. September to October 2002.

Smit A de Fortier, PhD(Eng) candidate from University in Stellenbosch. Spent 2 months at Delft University of Technology for specialist finite element analysis with CAPA 3D as part of doctoral research. September to November 2002.

Teixera M, MSc (Eng) candidate from University of Porto in Portugal. Spent 2 months at University of Stellenbosch carrying out research testing (mainly triaxial) on foamed bitumen mixes. July 2003 to September 2003

Raab C, Possible PhD candidate from EMPA Research Laboratories in Zurich, Switzerland. Spending 4,5 months at University of Stellenbosch carrying out research, particularly using the MMLS Mk3 Scaled APT device. August 2003 to December 2003

International Co-operation : Professor Exchange – Sabbaticals in Stellenbosch

Molenaar A.A.A. from Delft University of Technology. Interaction and planning about combined Masters Degree in Pavement Engineering Courses. November 2004 to February 2005

Bahia H.U. from University of Wisconsin at Madison. Interaction and establishment of performance grading system for South African binders (especially for surfacing seals). June 2007 to August 2007

RESEARCH OUTPUT

Books & Chapters of Books

Jenkins KJ, Collings DC, Theyse H, and Long FM. Chapter 3 : Mix Design. Pages 17 – 51. *Interim Technical Guideline TG2: The Design and Use of Foamed Bitumen Treated Materials*. Edited by Les Sampson of Asphalt Academy (publishers) with review by members of the Road Pavements Forum RPF. September 2002. ISBN 0-7988-5543-6

Wirtgen Group (authors Collings DC, Jenkins KJ and Shunmugam R). *Wirtgen Cold Recycling Manual*, 2nd Edition November 2004. ISBN 3-936215-05-7

ASCE Geotechnical Special Publication 191: Road Pavement Material Characterisation and Rehabilitation, 2009, Editor, ISBN 978-0-7844-1043-1

Jenkins KJ, Collings DC, and Long FM (main authors) with contributions from Jooste F, Grobler J, Hughes M, J and Thomson H. *Technical Guideline TG2: Bitumen Stabilised Materials: A Guideline for the Design and Construction of Bitumen Emulsion and Foamed Bitumen Stabilised Materials*. Second Edition. Published by Asphalt Academy. KJJ input Chapter 4 : Mix Design. Pages 21 – 41. May 2009. ISBN 978-0-7988-5582-2

Wirtgen Group (authors Collings DC, Jenkins KJ and Shunmugam R). *Cold Recycling. Wirtgen Cold Recycling Technology*, 3rd Edition November 2010. ISBN 3-936215-05-7

Peer-reviewed Journal Publications

Van de Ven M F C, Smit A de F and Jenkins K J. *Triaxial testing of Elasto-Plastic Materials towards Scaled Down APT*. Transportation Research Record 1619. Washington DC. Pp 11 – 17, 1998.

Van de Ven M F C, Smit A de F, Jenkins K J and Hugo F. *Scaled Down APT Considerations for Visco-Elastic Materials* . Journal of Association of Asphalt Paving Technologists, USA. Volume 67 pp 602-622. 1998.

Jenkins KJ, Molenaar AAA, de Groot JLA, and van de Ven MFC, *Foamed Asphalt Produced using Warmed Aggregates*. Journal of Association of Asphalt Paving Technologists, USA, Volume 71. pp 468 – 492 (received W.J. Emmons Award for Best Paper). 2002.

Milne TI and Jenkins KJ, *Towards modelling road surfacing seal performance: performance testing and mechanistic behavioural model*. Journal of the South African Institution of Civil Engineering, Volume 47 Number 3. Pp 2 – 13. 2005.

Jenkins K.J, Long F.M, and Ebels L.J. *Foamed Bitumen Mixes = Shear Performance?* IJPE International Journal of Pavement Engineering. Volume 8 Number 2. June 2007

Van de Ven M.F.C, Jenkins K.J, Voskuilen J.L.M, and van den Beemt R. *Development of (half-) warm foamed bitumen mixes: state of the art*. IJPE International Journal of Pavement Engineering. Volume 8 Number 2. June 2007

Twagira M.E. and Jenkins K.J., *Durability Properties of Materials and Mixture Composition of Bitumen Stabilised Materials*. Journal of Wuhan University of Technology, ISSN 1671-4431, Vol. 32, No.17, pp. 215-226. Sep 2010

Jenkins K.J., Twagira M.E. Kelfkens R.W. and Mulusa W.K., *New Laboratory Testing Procedures for Mix Design and Classification of Bitumen Stabilised Materials*. Special Issue: Stabilization and Reclamation of Highways: International Journal of Road Materials and Pavement Design RMPD, ISSN _____2012

Twagira M.E. and Jenkins K.J. *Application of MMLS3 in Laboratory Conditions for Moisture Damage Classification of Bitumen Stabilised Materials*. Special Issue: Stabilization and Reclamation of Highways: International Journal of Road Materials and Pavement Design RMPD, ISSN _____2012

Van de Ven M.F.C., Sluer B.W., Jenkins K.J. and van den Beemt C.M.A. *New Developments with Halfwarm Foamed Asphalt Mixtures for Sustainable and Durable Pavement Solutions*. Special Issue: Stabilization and Reclamation of Highways: International Journal of Road Materials and Pavement Design RMPD, ISSN _____2012

Peer-reviewed Proceedings: International Conferences

Hugo F, Hindle R, Jenkins K J. *Facing the Challenges of Transformation: A New Model for the Construction Management Programme (CMP) in South Africa*. First International Conference on Construction Industry Development: Building the Future Together. Singapore, Volume II, pp. 134-141, December 1997.

Jenkins K J, Hugo F, van de Ven M F C. *Bitumen Emulsion Stabilized Paving Blocks - Development of Labour Intensive Manufacture and Construction Techniques*. Proceedings 2nd World Congress on Emulsions, Bordeaux, France, 23-26, Volume 3, Theme 4-1(b), pp. 257.1-12, September 1997.

Van de Ven M F C, Smit A de F and Jenkins K J. *Triaxial testing of Elasto-Plastic Materials towards Scaled Down APT*. Paper No. 981553 presented at the annual meeting of the Transportation Research Board published in Transportation Research Record 1619. Washington DC. Pp 11 – 17, 1998.

Jenkins KJ, de Groot JLA, van de Ven MFC and Molenaar AAA, *Half-warm Foamed Bitumen Treatment, A New Process*. Conference on Asphalt Pavements for Southern Africa CAPSA '99, Victoria Falls, Zimbabwe, 1999.

Jenkins KJ and van de Ven MFC, *Mix Design Considerations for Foamed Bitumen Mixtures*. Conference on Asphalt Pavements for Southern Africa CAPSA '99, Victoria Falls, Zimbabwe, 1999.

Jenkins KJ, van de Ven MFC and de Groot JLA, *Characterisation of Foamed Bitumen*. Conference on Asphalt Pavements for Southern Africa CAPSA '99, Victoria Falls, Zimbabwe, 1999.

Jenkins KJ, van de Ven MFC, Ebels LJ and Bredehann SJ, *Possibilities for Cold Mix Bituminous Paving Blocks*. Conference on Asphalt Pavements for Southern Africa CAPSA '99, Victoria Falls, Zimbabwe, 1999.

Smit Adf, Jenkins KJ and van de Ven MFC, *Mix Design Laboratory Compaction of Large Aggregate Mixes with Temperature Variation*. Conference on Asphalt Pavements for Southern Africa CAPSA '99, Victoria Falls, Zimbabwe, 1999.

Jenkins KJ, Molenaar AAA, de Groot JLA and van de Ven MFC. *Optimisation and Application of Foamed Bitumen in Road Building*. Wegbouwkundige Werkdagen 2000, Doorwerth, Netherlands, 2000.

Jenkins KJ, Molenaar AAA, de Groot JLA and van de Ven MFC. *Foamed Bitumen Treatment of Warmed Aggregates*. 2nd Euroasphalt and Eurobitume Congress Barcelona, Session 2. 2000.

Jenkins KJ, Molenaar AAA, de Groot JLA and van de Ven MFC. *Developments in the uses of foamed bitumen in road pavements*. Heron Publications, Delft University of Technology, Netherlands. 2000.

Jenkins KJ, Molenaar AAA and van de Ven MFC. *New Trends in Foamed Bitumen Technology*. Bauma (Building Machinery Exhibition and Conference), Munich, Germany. 2001.

Jenkins KJ and van de Ven MFC. *Comparisons between In Situ Recycling with Cement and Foamed Bitumen or Emulsion on Vanguard Drive in South Africa*. First International Symposium on Subgrade Stabilization and In Situ Pavement Recycling using Cement ,Salamanca, Spain. 2001.

Bredenhann S, Jenkins KJ and Bester AJ. *A Practical Approach to Non-Linear Structural Analysis of Pavements using Finite Element Analysis Techniques*. Third International Symposium on 3D Finite Element for Pavement Analysis, Amsterdam, The Netherlands. April, 2002

Smit AdfS, Jenkins KJ, Hugo F and Walubita L. *The Model Mobile Load Simulator as a tool for evaluating asphalt performance under wet conditions*. Ninth International Conference on Asphalt Pavements, Copenhagen, Denmark, August 2002. pp 19

Milne T, Jenkins KJ and van de Ven MFC. *Towards a performance related seal design method: New Empirical test method using scaled down APT and theoretical performance model*. Ninth International Conference on Asphalt Pavements, Copenhagen, Denmark, August 2002.

Jenkins KJ, van de Ven MFC, Molenaar AAA and de Groot JLA, *Performance Prediction of Cold Foamed Bitumen Mixes*. Ninth International Conference on Asphalt Pavements, Copenhagen, Denmark, August 2002. pp16

Jenkins KJ, Pretorius FJ, Hugo F and Carr R. *Asphalt Mix Design For Cape Town International Airport Using Scaled Apt And Other Selected Tests*. 6th International RILEM Symposium PTEBM'03, Zurich, Switzerland, April 2003

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