

CAPSA '11

ROADS OF THE FUTURE

"Living within the carrying capacity of our planet"



The conference will examine and demonstrate the commitment and capacity of producers and users of bituminous products to advance sustainable practice through the reduced reliance on non-renewable resources, care of the environment and assist in the sound development of society.



10th CONFERENCE ON ASPHALT PAVEMENTS FOR SOUTH AFRICA



10th CAPSA - September 11 to 14 - 2011

CAPSA was held on a five yearly basis until the 2004 Conference in Sun City

2007 – Gaborone, Botswana

Interim Conference

Theme – Consolidating best practice

1969 – Durban, South Africa
1974 – Durban, South Africa
1979 – Durban, South Africa
1984 – Cape Town, South Africa
1989 – Mbabane, Swaziland
1994 – Cape Town, South Africa
1999 – Victoria Falls, Zimbabwe
2004 – Sun City, South Africa

- To bring CAPSA in line with 4-yearly conference calendar of events
- In line with policy decision taken in 1984 of alternating conference venues between South Africa and other countries in the region.



10th CONFERENCE ON ASPHALT PAVEMENTS FOR SOUTH AFRICA



CAPSA 2007

Interim conference

Style of CAPSA 07 focused on unresolved issues that have been raised in the past rather than posing more questions for resolution.

Programme structured to provide plenary presentations of commissioned best-practice papers by local and international experts on prescribed topics in the respective conference focus areas to stimulate resolution by the structured participation of delegates through debate and discussion in parallel workshop sessions



Conference character

Contextualise the technical content with subject matter such as:

- road user needs,
- economic modelling,
- asset management,
- social impacts,
- worker safety and environmental conservation



Variability and Risk: Quality Management

Awareness	● ● ● ●
Knowledge	● ● ● ●
Tools	● ● ● ●
Implementation	● ● ● ●

- SANAS Accreditation
- Many old plant/equipment, inertia to change
- Reluctance to embrace performance contracts
- Laboratory proficiency schemes



Variability and Risk: Pavement Design

Awareness	● ● ● ●
Knowledge	● ● ● ●
Tools	● ● ● ●
Implementation	● ● ● ●

- Monte Carlo simulation is used analytically
- Will SAMDM research deliver effectively?
- Have we planned for training & delivery?
- We look to the future...

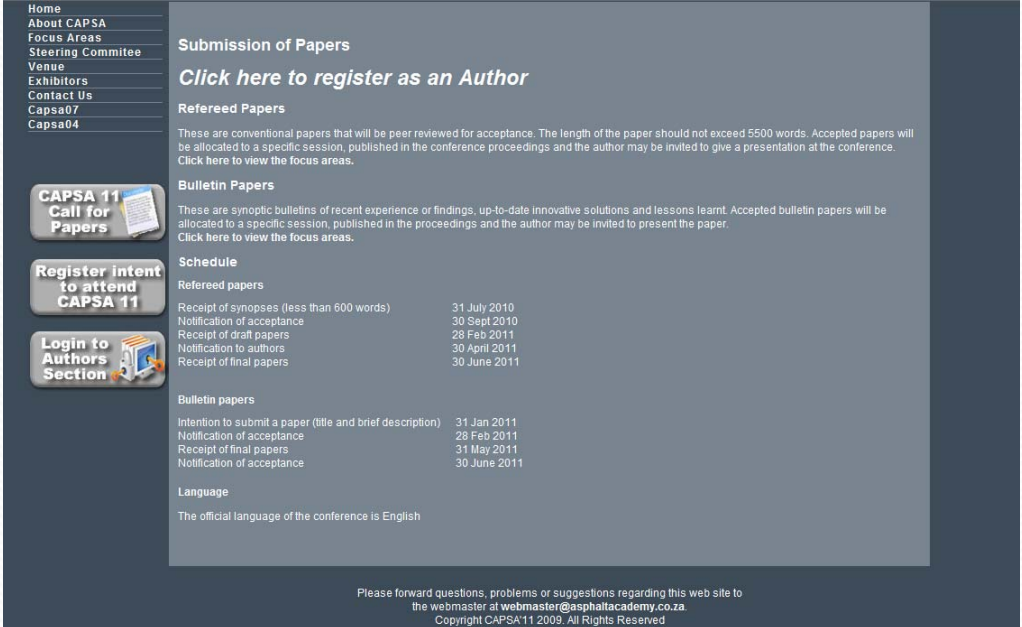


10th CONFERENCE ON ASPHALT PAVEMENTS FOR SOUTH AFRICA



Format of the Conference

- Back to the traditional CAPSA format
 - Call for Papers for formal review
 - Bulletin papers for publication in the conference proceedings.
- **Refereed Papers**
- These are conventional papers that will be peer reviewed for acceptance. Should not exceed 5500 words. Accepted papers will be allocated to a specific session, published in the conference proceedings and the author may be invited to give a presentation at the conference.
- **Bulletin Papers**
- These are synoptic bulletins of recent experience or findings, up-to-date innovative solutions and lessons learnt. Accepted bulletin papers will be allocated to a specific session, published in the proceedings and the author may be invited to present the paper.



The screenshot shows the CAPSA 11 website interface. On the left is a navigation menu with links: Home, About CAPSA, Focus Areas, Steering Committee, Venue, Exhibitors, Contact Us, Capsa07, and Capsa04. Below the menu are three buttons: 'CAPSA 11 Call for Papers', 'Register intent to attend CAPSA 11', and 'Login to Authors Section'. The main content area is titled 'Submission of Papers' and includes a link to register as an author. It details the 'Refereed Papers' process (5500 words limit) and 'Bulletin Papers' (synoptic bulletins). A 'Schedule' section lists key dates: Refereed papers (31 July 2010), Receipt of synopsis (less than 600 words) (30 Sept 2010), Notification of acceptance (28 Feb 2011), Receipt of draft papers (30 April 2011), Notification to authors (30 June 2011), Receipt of final papers (31 Jan 2011), Intention to submit a paper (title and brief description) (28 Feb 2011), Notification of acceptance (31 May 2011), Receipt of final papers (30 June 2011), and Notification of acceptance (30 June 2011). A 'Language' section states the official language is English. At the bottom, contact information for the webmaster is provided: 'Please forward questions, problems or suggestions regarding this web site to the webmaster at webmaster@asphaltacademy.co.za. Copyright CAPSA'11 2009. All Rights Reserved.'



Format of the Conference

- The Conference also provide opportunity for the industry to exhibit there products and expertise through formal exhibition that will be associated with the Conference.
- All items related to the Conference in terms of submission and acceptance of synopses, submission and acceptance of final papers and registration for the conference will be managed on-line through this web site
- **Refereed Papers**
 - Receipt of synopses (less than 600 words) 31 July 2010
 - Notification of acceptance 30 Sept 2010
 - Receipt of draft papers 28 Feb 2011
 - Notification to authors 30 April 2011
 - Receipt of final papers 30 June 2011
- **Bulletin papers**
 - Intention to submit a paper (title and brief description) 31 Jan 2011
 - Notification of acceptance 28 Feb 2011
 - Receipt of final papers 31 May 2011
 - Notification of acceptance 30 June 2011

Home
About CAPSA
Focus Areas
Steering Committee
Venue
Exhibitors
Contact Us
Capsa07
Capsa04

Submission of Papers

[Click here to register as an Author](#)

Refereed Papers

These are conventional papers that will be peer reviewed for acceptance. The length of the paper should not exceed 5500 words. Accepted papers will be allocated to a specific session, published in the conference proceedings and the author may be invited to give a presentation at the conference. [Click here to view the focus areas.](#)

Bulletin Papers

These are synoptic bulletins of recent experience or findings, up-to-date innovative solutions and lessons learnt. Accepted bulletin papers will be allocated to a specific session, published in the proceedings and the author may be invited to present the paper. [Click here to view the focus areas.](#)

Schedule

Refereed papers	
Receipt of synopses (less than 600 words)	31 July 2010
Notification of acceptance	30 Sept 2010
Receipt of draft papers	28 Feb 2011
Notification to authors	30 April 2011
Receipt of final papers	30 June 2011

Bulletin papers

Intention to submit a paper (title and brief description)	31 Jan 2011
Notification of acceptance	28 Feb 2011
Receipt of final papers	31 May 2011
Notification of acceptance	30 June 2011

Language

The official language of the conference is English

Please forward questions, problems or suggestions regarding this web site to the webmaster at webmaster@asphaltacademy.co.za.
Copyright CAPSA'11 2009. All Rights Reserved



Technical Programme

Opening/keynote session

- A (broad based) global perspective of current and future thrusts/endeavours to underpin a stable society living within the resources of earth
- Tackling Africa's \$93billion infrastructure deficit to redress the region's income inequality (e.g. World Bank)
- Scope for cooperation between the public and private sectors to advance sustainable practice in the bituminous product industry (South African road authority/agency)



Technical Programme

Focus area 1 – Reduced energy consumption in the construction of bituminous layers

- Coordinators: K Naidoo, G Catin
- Lower temperatures in the mixing and laying of durable asphalt and bitumen stabilised materials
- Re-use and recycling of asphalt
- Potential for the use of industrial and demolition waste in road layers
- *NOTE: This session could be split to cover reduced temperature applications and re-use/recycling separately should the offers of papers justify it.*



Technical Programme

Focus area 2 – Reducing the impact of road building activities on the environment

- Coordinator: S Solomons
- The development and use of life cycle inventories and life cycle assessments for bituminous pavement layers
- Reduction and management of harmful emissions associated with bituminous products
- Pavement material selection to lessen the depletion of natural resources
- Proper disposal of bituminous waste
- Asphalt surfaces for improved fuel economy and mitigation of road noise



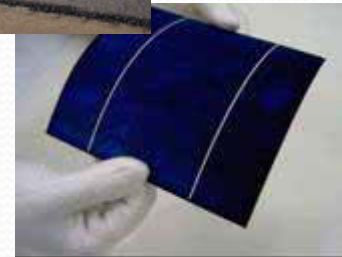
SURFACE DEEP Bitumen emulsions' ability to be applied cold and without the use of hydrocarbon fuel for heating drastically reduces the release levels of harmful gasses into the atmosphere.



Technical Programme

Focus area 3 – Designing for extended performance of bituminous layers

- Coordinator: H Marais, K Louw
- The introduction of mix design procedures for improved durability and performance characteristics of asphalt
- Ultra thin asphalt layers, spray seals and microsurfacing for high performance areas
- Designing wearing courses to meet road user needs in terms of comfort and safety.
- *NOTE: This session could be split, dealing with hot/warm mix and ultra thin asphalt on the one hand and spray seals and microsurfacing on the other should the offers of papers justify it.*



Technical Programme

Focus area 4 – Flexible pavement systems for extended life

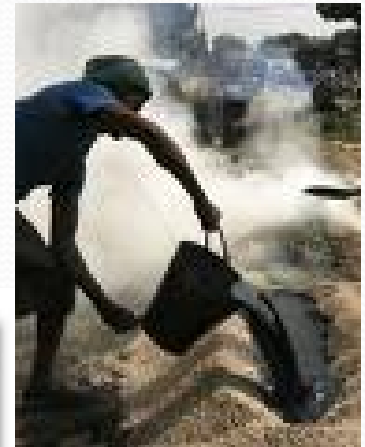
- Coordinator: B Verhaeghe
- Balanced structural pavement design procedures for a broad range of operating conditions
- Optimal design or rehabilitation strategies and total whole life cost assessments for roads in both urban and rural locations
- Methods and procedures for assessing the costs of periodic interventions
- Impact of climate change on road pavements and evolving adaptation strategies
- Long life asphalt pavements to minimise frequent interventions and disruptions to traffic flow.



Technical Programme

Focus area 5 – Meeting the needs of society

- Coordinator: A Taute
- Exploiting bituminous product technology to provide sustainable employment, to improve access and mobility and to optimise whole life costs.
- Economic sustainability through the procurement and management of bituminous roads
- Meeting the needs for capacity and skills development in the bituminous products industry
- Bituminous roads and pathways as a means to advance equity in the production and sale of goods and services.
- Ensuring the safety of road users and employees during roadworks



ASPHALT ACADEMY	
Calendar of Events	
Selected Events for 2011	
Event Name	Date
1st Annual Bituminous Quality Conference	28 Aug 2011
2nd Annual Bituminous Quality Conference	29 Aug 2011
3rd Annual Bituminous Quality Conference	30 Aug 2011
4th Annual Bituminous Quality Conference	31 Aug 2011
5th Annual Bituminous Quality Conference	1 Sep 2011
6th Annual Bituminous Quality Conference	2 Sep 2011
7th Annual Bituminous Quality Conference	3 Sep 2011
8th Annual Bituminous Quality Conference	4 Sep 2011
9th Annual Bituminous Quality Conference	5 Sep 2011
10th Annual Bituminous Quality Conference	6 Sep 2011
11th Annual Bituminous Quality Conference	7 Sep 2011
12th Annual Bituminous Quality Conference	8 Sep 2011
13th Annual Bituminous Quality Conference	9 Sep 2011
14th Annual Bituminous Quality Conference	10 Sep 2011
15th Annual Bituminous Quality Conference	11 Sep 2011
16th Annual Bituminous Quality Conference	12 Sep 2011
17th Annual Bituminous Quality Conference	13 Sep 2011
18th Annual Bituminous Quality Conference	14 Sep 2011
19th Annual Bituminous Quality Conference	15 Sep 2011
20th Annual Bituminous Quality Conference	16 Sep 2011
21st Annual Bituminous Quality Conference	17 Sep 2011
22nd Annual Bituminous Quality Conference	18 Sep 2011
23rd Annual Bituminous Quality Conference	19 Sep 2011
24th Annual Bituminous Quality Conference	20 Sep 2011
25th Annual Bituminous Quality Conference	21 Sep 2011
26th Annual Bituminous Quality Conference	22 Sep 2011
27th Annual Bituminous Quality Conference	23 Sep 2011
28th Annual Bituminous Quality Conference	24 Sep 2011
29th Annual Bituminous Quality Conference	25 Sep 2011
30th Annual Bituminous Quality Conference	26 Sep 2011
31st Annual Bituminous Quality Conference	27 Sep 2011
32nd Annual Bituminous Quality Conference	28 Sep 2011
33rd Annual Bituminous Quality Conference	29 Sep 2011
34th Annual Bituminous Quality Conference	30 Sep 2011
35th Annual Bituminous Quality Conference	1 Oct 2011
36th Annual Bituminous Quality Conference	2 Oct 2011
37th Annual Bituminous Quality Conference	3 Oct 2011
38th Annual Bituminous Quality Conference	4 Oct 2011
39th Annual Bituminous Quality Conference	5 Oct 2011
40th Annual Bituminous Quality Conference	6 Oct 2011
41st Annual Bituminous Quality Conference	7 Oct 2011
42nd Annual Bituminous Quality Conference	8 Oct 2011
43rd Annual Bituminous Quality Conference	9 Oct 2011
44th Annual Bituminous Quality Conference	10 Oct 2011
45th Annual Bituminous Quality Conference	11 Oct 2011
46th Annual Bituminous Quality Conference	12 Oct 2011
47th Annual Bituminous Quality Conference	13 Oct 2011
48th Annual Bituminous Quality Conference	14 Oct 2011
49th Annual Bituminous Quality Conference	15 Oct 2011
50th Annual Bituminous Quality Conference	16 Oct 2011



CAPSA 2011 – What to do!!

- Register on the web site – intent to attend
- Take note of dates and get those papers in
 - **Refereed Papers**
 - Receipt of synopses (less than 600 words) 31 July 2010
 - **Bulletin papers**
 - Intention to submit a paper (title and brief description) 31 Jan 2011
- Details regarding accommodation etc
 - Attend next RPF!!

