



higher education
& training
Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



Report on Engineering Skills Summit 2012

***ECSA in partnership with
the Department of Higher Education & Training,
the merSETA, and SASEE.***

Engineering Education Summit

- *In 2011 ECSA conducted research into the barriers preventing engineering students from passing on the 4 year BSc Engineering program.*
- *What motivated the research?*



An analysis of the 2001 national intake cohort of engineering students at SA HEIs.

	<i>Graduated within 5 years</i>	<i>Still registered after 5 years</i>
<i>4 year Bachelor's (Eng)</i>	54%	19%
<i>National Diploma (Eng)</i>	17%	14%

% of Students who graduate from a 4 year BSc Eng programme within 5 yrs

	<i>African</i>	<i>White</i>
<i>4 year Bachelor's (Eng)</i>	32%	64%
<i>National Diploma (Eng)</i>	16%	28%

Consultation between DHE&T & ECSA

- ***Research findings presented to the Department of Higher Education & Training (DHET) (Dec 2011)***
- ***Two further areas to be addressed were identified***
 8. **Workplace Integrated Learning (WIL) Nat. Diploma**
 9. **Articulation between FET Colleges and Universities**



Engineering Skills Summit Conceptualised





- ***As consequence ECSA & DHET undertook to host the Engineering Skills Summit in partnership with the Department of Higher Education & Training (DHE&T) during 2012.***
- ***merSETA and SASEE***

Purpose of the Engineering Skills Summit 2012

- ***National debate on barriers to student success***
- ***Share ECSA's 2011 research report:
“ Throughput study in the Engineering Bachelors Degree ”***
- ***Develop Recommendations & Resolutions to present to the Minister of Higher Education***
- ***Impact Policy & Practice i.r.o. Engineering Education***

Engineering Skills Conference Website

<http://ecsa.dhetconference.co.za/>

Engineering skills summit

16 October 2012

Home Register Programme About the Conference Contact

011 607 9539

Development of a national strategy to increase engineering graduate output




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Register Programme

 Improving Throughput in the Engineering Bachelors Degree

More about the Conference ▶

✓ To view the presentations please click on the  icon next to the facilitator's name on the **programme page**

Who should attend?



The Venue



Conference Sponsorship & Collaboration



Summit Delegates

- ***A total of 230 delegates attended the summit 16 Oct***
- ***Conference Delegates included a wide range of stakeholders:***
 - ***Higher Education Institutions,***
 - ***Further Education and Training (FET) Colleges,***
 - ***industry and commerce,***
 - ***Government department at all three tiers .***



Message from the Minister of HE&T.

- *Dr Engela van Staden was speaking on behalf of Higher Education and Training Minister Blade Nzimande at the 2012 Engineering Skills Summit, in Kempton Park.*
- *DHET would heed the call to reconsider the funding model pertaining to engineering faculties*
- *South Africa lagged far behind in the number of engineers proportionate to population, compared with the UK, Australia Brazil, and India.*



Summit Themes and Discussion Groups

**1. School system &
Student Selection**

Prof Almarie van Heerden

**2. Curriculum aspects
and interventions**

Prof Ian Scott

3. Teaching and learning

Prof Jenni Case

4. Student support

***Chantyl Mulder &
Dr Dianne Grayson***

Summit Themes and Discussion Groups

5. Staffing

Dr Allyson Lawless

6. Funding

Prof Melck

7. WIL

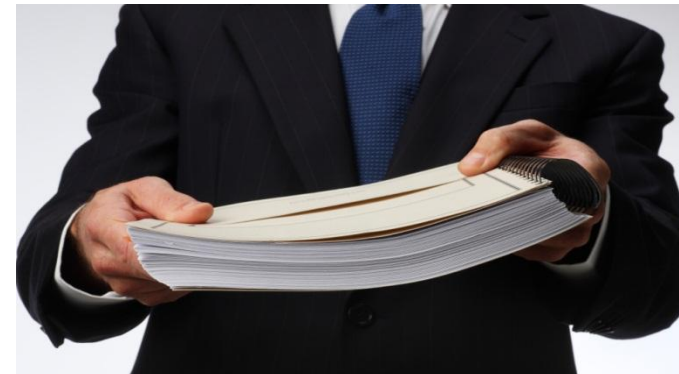
***Prof Tshilidzi Marwala &
Dr Raymond Patel***

8. Articulation

Dr Keith Jacobs

Post Engineering Skills Summit

- *Detailed report containing recommendations from each of the eight discussion groups have been received*
- *Consolidation of the sub report into a comprehensive Summit Report is currently underway.*
- *The final Summit Report containing recommendations for the Minister of Higher Education and Training Minister Blade Nzimande will be presented during the first week of December 2012.*
- *Recommendations will influence policy and practice of Engineering education which in turn will lead to increased engineering graduate output.*



**Thank you - Enkosi - Ha khensa - Re a leboga - Ro livhuwa -
Siyabonga - Siyathokoza - Dankie**

