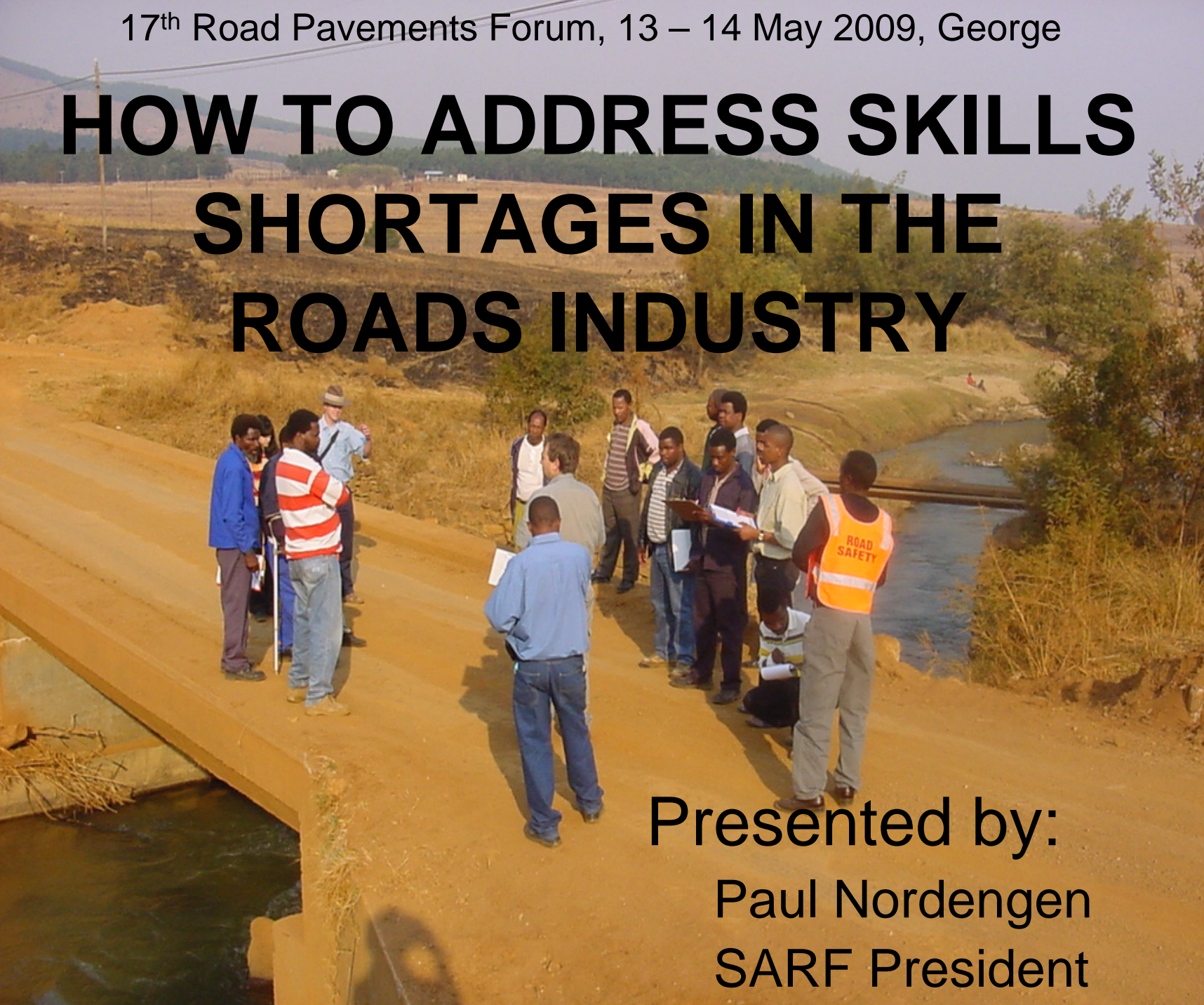




17th Road Pavements Forum, 13 – 14 May 2009, George

HOW TO ADDRESS SKILLS SHORTAGES IN THE ROADS INDUSTRY



Presented by:
Paul Nordengen
SARF President



SARF EDUCATION PROGRAMME

- Education has been a cornerstone of SARF for many years
- Capacity building and skills transfer in the roads industry continues to be one of the key objectives of SARF





SARF courses

- Started in 1960
- Approx 200 to date

COURSES ORGANIZED BY THE SARF SINCE 1960

	Year	Lecturer(s) (No. Course Venues)	Title	No. of Del.	Fee
1.	1960 (1)	Prof. D. S. Berry and J. K. Schwär	Traffic Engineering	44	R 75
2.	1960 (1)	Prof. D. S. Berry and J. K. Schwär	Traffic Engineering	21	R 22
3.	1961 (1)	Walt Pletcher and G. Schultz	Traffic Operation	51	R 130
4.	1962 (1)	Jack E. Leisch	Advanced Geometric Design of Motorways and Interchanges	65	R 87.50
5.	1964 (1)	Prof. Robley Winfrey	Highway Economics and Finance	46	R 110
6.	1965 (3)	Lt-Col. Tom Milldebrandt	Traffic Operation and Control	112	R 50
7.	1965 (1)	F.N. Hveem	Road Foundations and Surfacing	92	R 100
8.	1966 (1)	R.F. Moore	Foundations for Structures	86	R 80
9.	1966 (1)	Several (Local)	Transport Management and Economics	105	R 50
10.	1967 (3)	Lt-Col. Tom Milldebrandt	Traffic Operation and Control	102	R 75
11.	1967 (1)	Jack E. Leisch	Application of the USA 1965 Highway Capacity Manual	90	R 100
12.	1968 (1)	Several (Local)	Transport Management and Economics	89	R 85
13.	1968 (1)	Several (Local)	Exploiting Available Computer Programs	50	R 60



SARF COURSES

- SARF is fully committed to co-operation with other industry capacity building initiatives (Asphalt Academy, Sabita, CSIR, SAICE, CapCoR, universities)
- All courses are CPD accredited



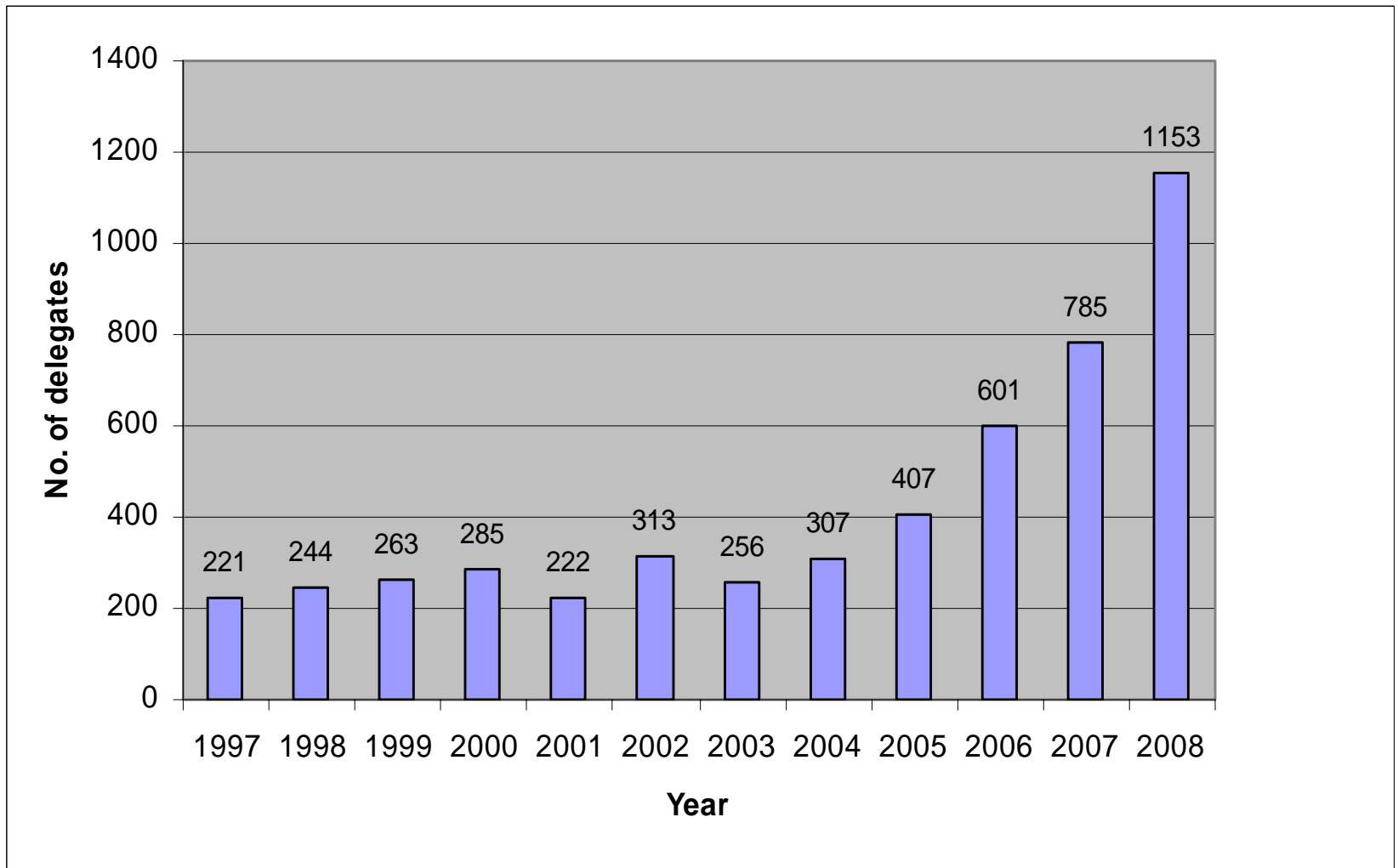


SARF COURSE ATTENDANCE 1997 – 2008

YEAR	Number of Courses	Number of Venues	Number of delegates	Average no. of delegates/course
1997	3	6	221	37
1998	6	11	244	22
1999	5	12	263	22
2000	7	14	285	20
2001	9	9	222	25
2002	9	12	313	26
2003	9	10	256	26
2004	11	13	307	24
2005	9	12	407	34
2006	10	14	601	43
2007	12	19	785	41
2008	15	29	1153	40



SARF COURSE ATTENDANCE 1997 – 2008





POPULAR COURSES DURING 2008

- Contract documentation (190 delegates)
- Road pavement rehabilitation (190 delegates)
- SA Road Traffic Signs Manual (142 delegates)
- Soil stabilisation (109 delegates)
- Road marking (94 delegates)
- Geometric design (94 delegates)
- Compaction of road building materials (90 delegates)





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SARF COURSE PROGRAMME 2009



SARF EDUCATION COMMITTEE: 2009 COURSE PROGRAMME

		REV 10			2009										
Course Title	Convenor	Val	Days	Approx Cost (R) **	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	Practical Road Pavement Engineering	D Wright	V	3	4000									PE 6/8	
2	Stormwater Drainage	P Pearse	V	4 ¹ / ₂	5900				CT 4/8		PE 3/7				
3	Soil Stabilisation	G Jordaan	V	2	3500	Dbn 9/10			PE 18/19						
4	Traffic Signals Design	C van As	V	2	3500			Gau 20/21							
5	SADC Road Traffic Signs Manual	J Falkner	V	2	3500	Gau 16/17					EL 6/7		Nel 7/8		
6	Road Marking	J Falkner	V	2	3500		Gau 16/17			EL 8/9		Pmb 11/12		Nam 12/13	
7	Environmental Management for Roads	H Fontuin	V	3	5200						CT 13/15				
8	Traffic Calming Measures	K Labuschagne	V	2	3400								EL 14/15		
9	GIS	D Van As	V	2	3400						PE 20/21		Nam 21/22		
10	Geometric Design of Highways	J Pienaar	V	4 ¹ / ₂	5900		CT 9/13			Gau 1/5					
11	Contract Documentation	T Ashford	V	3	4000		Blm 23/25		Gau 25/27		Nam 27/29		Pmb 28/30		
12	Compaction of Road Building Materials	M White	V	2 ¹ / ₂	4000			Dbn 6/8				Gau 24/26			
13	Routine Road Maintenance (New)	B Alexander		4	4500										
14	Road Pavement Rehabilitation	G Jordaan	V	2	3500			CT 20/21		Blm 22/23					
15	Introduction to Road Materials Engineering	A Lewis	V	3	4200		Gau 2/4		Pmb 4/6				CT 31/1-2	EL 26/28	
16	Roadworks Traffic Management	A Fabricius	V	2	3400				Gau 14/15	Pol 18/19				CT 17/18	
17	Gravel Road Design Construction & Maintenance	P Paige-Green													
18	Non-Motorised Transport	H Ribbens		3											
V = CPD validated courses				** Approximate cost excludes VAT			X = Application made for CPD Validation								
CT = Cape Town Dbn = Durban Gau = Gauteng PE = Port Elizabeth Whk = Windhoek EL = East London Pmb = Pietermaritzburg Blm = Bloemfontein Nel = Nelspruit Pol = Polokwane Geo = George Kim = Kimberley Nam = Namibia Bot = Botswana															



NEW COURSES

- Non-motorised transport (vulnerable road users) (DoT Guideline document)
- Design, construction and maintenance of gravel roads (Revised TRH 20)
- Routine road maintenance (Revised SANRAL manual)
- Road safety audits
- Roadworks traffic management
- Environmental management (new presenters)
- Structures





SARF BURSARY SCHEME

- Originally for post-graduate study normally overseas
- Total value at approx. R 100 000 for the past few years
- Currently under review in respect of academic level
- Proposal being considered to sponsor individuals to attend SARF courses
- Could initially be restricted to SARF members (i.e. as a member benefit)



RECOMMENDATIONS AND CONCLUSIONS

- Four-pronged approach:
 - Basic education
 - Tertiary education (engineering)
 - Graduates (road engineering)
 - Practitioners (engineers and managers)
- Diminishing pool of expertise, so the need for skills transfer is critical
- Your country needs YOU!!!
- (Consider sharing your expertise and experience with others)