



SUNCEP • SUNSEP



2016



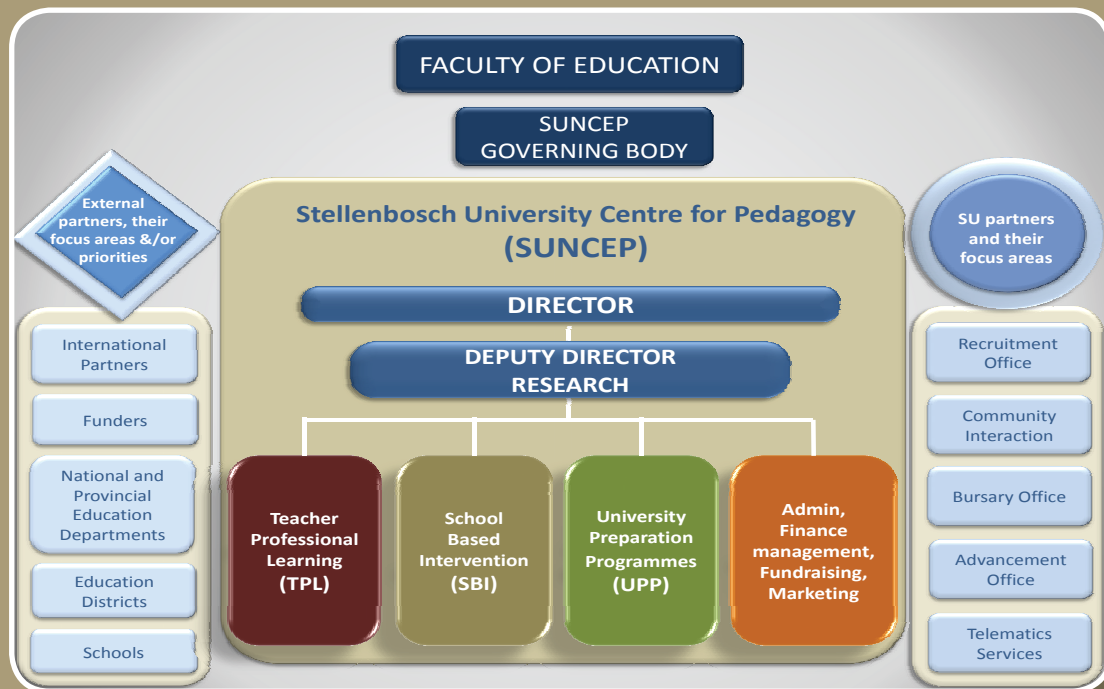
UNIVERSITEIT  
STELLENBOSCH  
UNIVERSITY

SUNCEP Annual Report  
SUNSEP Jaarverslag

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## SUNCEP ORGANOGRAM



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An electronic version of this Annual Report  
 is also available on the web site

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# VOORWOORD

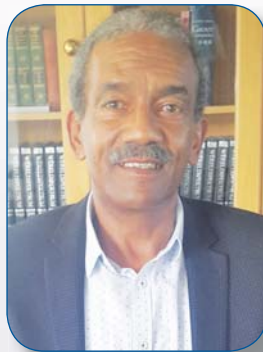
**M**et 'n terugblik op die afgelope jaar, kan ons by SUNSEP nie anders as om opnuut te beseef hoe gelukkig ons is om deel te kan wees van so 'n uitdagende en opwindende sosiale aktiwiteit soos die onderwys nie. Ons sluit die jaar af met die diepe beseef dat ons visie om 'n bydrae tot onderwysontwikkeling te lewer, volgehoue harde werk verg. Dit vra ook 'n deurlopende strewe om denkleiers te wees in ons gekose kernaktiwiteite, te wete voortgesette professionele leer, skoolgebaseerde intervensies en universiteitsvoorbereiding.

Die volgehoue strewe van SUNSEP om haar visie te verwerklik, is vanjaar weer eens vergestalt deur die voorsetting van aktiwiteite in die Wes-, Noord- en Ooskaap, maar ook via die groot aantal SUNSEP-personeellede wat tans besig is met nagraadse kwalifikasies, wat nagraadse kwalifikasies verwerf het, en wat die SUNSEP-vaandel met trots na verskeie nasionale en internasionale vergaderings en konferensies kon uitdra. Hierby moet ook gevoeg word die feit dat verskeie gewese SciMathUS- en HOPE@Maties-studente die afgelope jaar gegradueer het en dat studente uit die twee groepe weer uitmuntend in die NSS-eksamen gevaar het. SUNSEP het hierdeur beslis in haar kort leeftyd 'n bekende rolspeler op die gebied van onderwysontwikkeling geword – wat 'n wonderlike beloning vir iedere betrokke te toewyding en volgehoue harde werk!

Wat die toekoms betref, word reikhalzend uitgesien na bestaande aktiwiteite, maar ook na die eerste keer dat SciMathUS-studente in 'n behoorlike koshuis vir tersiêre studente gehuisves word, dat SUNSEP met die uitrol van die 'Talent Development Programme' – in vennootskap met die Departement Wetenskap en Tegnologie – haar uiniversiteitsvoorbereidingswerk na elk van die nege provinsies sal uitdra en dat die volgende fase van SUNSEP se e-leer strategies uitgerol sal kan word ter verstewiging van die strewe om haar visie te verwesenlik.

Ons kyk met groot dankbaarheid terug op 2016. Aan alle kollegas, vennote (intern en ekstern) en aan al ons befondsers: ons het 2017 betree met die diepe beseef dat ons sukses sonder julle samewerking en volgehoue ondersteuning geensins moontlik sou wees nie.

– Trevor



# FOREWORD

**W**hen we at SUNSEP reflect on the past year, we realise yet again how fortunate we are to be part of such a challenging and exciting social enterprise as education. We end the year with a profound realisation that our vision of making a contribution to the development of education not only requires sustained hard work, but also demands that we constantly strive to play a leading role in the thinking about our core activities, namely continuous professional learning, school-based interventions and university preparation.

Our constant striving to realise the SUNSEP vision has yet again taken shape not only in the continuation of our activities in the Western Cape, Northern Cape and Eastern Cape, but also in the large number of SUNSEP staff members who are currently engaged in postgraduate studies or have obtained postgraduate qualifications over the past year, and who have proudly borne the SUNSEP banner to several national and international meetings and conferences. Added to this is the fact that a number of former SciMathUS and HOPE@Maties students have graduated over the past year, and that students in these two programmes performed well in the NSC examinations. In its short lifetime so far SUNSEP has become a renowned role player in the field of educational development – what a wonderful reward for the dedication and consistent hard work of all those involved!

As far as the future is concerned, we look forward with great anticipation to continuing our current activities, but also to the first time that SciMathUS students are accommodated in a proper residence for tertiary students, when SUNSEP – in partnership with the Department of Science and Technology – can roll out its 'Talent Development Programme' for university preparation to all nine provinces, and when SUNSEP will launch the next phase of its e-learning strategies to enhance its striving to realise its vision.

We look back on 2016 with enormous gratitude. We say to all our colleagues, partners (internal and external) and all our funders that we are continuing our work in 2017 in the full realisation that, without your co-operation and sustained support, our success would not be possible.

– Trevor



# PERMANENTLY APPOINTED STAFF MEMBERS

Dr Trevor van Louw

Prof Mdu Ndlovu

Mr Andrew Fair

Mr Ramesh Jeram

Ms Nokwanda Siyengo

Mr Clifton Ayford

Ms Elsje Beyers

Ms Merle Festus

Ms Pauline Hanekom

Ms Erika Hoffman

Mr Lynthon Jacobs

Ms Eva Kayser

Ms Nontyatyambo Kulati

Ms Celeste Links

Ms Elza Lourens

Dr Sharon Malan

Ms Anneke Müller

Mr Cerenus Pfeiffer

Ms Christa Philander

Ms Benurita Philips

Ms Adele Pool

Ms Eileen Thomas

Ms Danelda van Graan

Director: SUNCEP

Deputy Director: SUNCEP

Component Manager: SBI

Component Manager: TPL

Component Manager: UPP

Facilitator: Mathematics

Facilitator: Computer Literacy, SciMathUS

Assistant

Facilitator: E-learning

Facilitator: Life and Natural Sciences

Project Co-ordinator

Assistant

Administrative Officer: SciMathUS

Financial Manager

Facilitator: Physical Sciences, SciMathUS

Facilitator: Communication and Life Skills, SciMathUS

Marketing and Fundraising

Facilitator: Mathematics, SciMathUS

Project Co-ordinator: Olifants River Project in Vredendal

Administrative Officer: SUNCEP

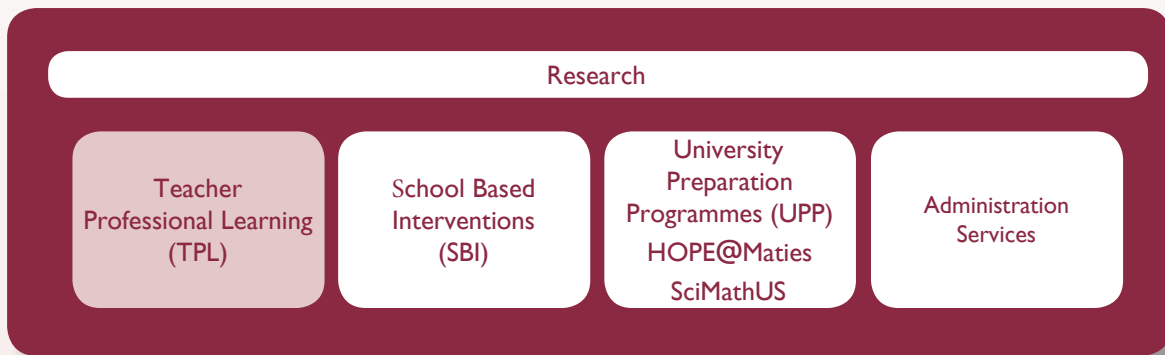
Administrative Officer: SciMathUS

Assistant: SciMathUS

Facilitator: Physical Sciences



# TEACHER PROFESSIONAL LEARNING (TPL)



In this component, SUNCEP offers professional learning programmes, both as full qualification courses and accredited short courses to currently serving teachers.

SUNCEP's practice-based approach to professional learning entails:

- ▷ synchronising theory (new knowledge/content) and practice (teaching);
- ▷ the importance of the site of practice becomes crucial to professional learning; and
- ▷ not only knowledge of content, but developing and applying professional knowledge to become experts within context.

Based on this approach, SUNCEP advocates the inclusion of the following activities:

- ▷ contact tuition sessions;
- ▷ mentoring offered via cluster meetings and on-site support visits;
- ▷ the use of social media in rendering e-support and e-mentoring; and
- ▷ telematic broadcasts from Stellenbosch University.



Topics in the following courses can be offered as accredited short courses, incorporating the above approach. The following accredited short courses were offered during 2016:

	Name of course	Field of study	Number of participants	Location	Funder
1	Numbers, Operations, Relations	Mathematics	14	Vredendal	Tronox Namaqua Sands
2	Numbers, Operations, Relations	Mathematics	100	CTLI	EDTP-Seta
3	Patterns, Functions, Algebra	Mathematics	100	CTLI	EDTP-Seta
4	Measurement	Mathematics	100	CTLI	EDTP-Seta
5	Data handling	Mathematics	28	Springbok	Trans Hex & West Coast Resources
6	Purpose driven leadership and strategic management	Leadership and Management	44	Stellenbosch	Remgro
7	Induction of newly appointed school principals	Leadership and Management	54	Kimberly	NCED
8	Assessor course	Total quality educational management	285	CPUT: Mowbray, Wellington, SU	Individual
9	Mentoring of school principals	Leadership and Management	11	Graaff Reinet	Johann & Gaynor Rupert Foundation
10	Data analysis for curriculum advisors	Leadership and Management	45	SU	Anglo American Chairman's Fund
11	Data management for curriculum advisors	Leadership and Management	45	SU	Anglo American Chairman's Fund
12	Advanced assessor in higher education	Total quality educational management	14	Pretoria	Aros
13	Advanced moderator in higher education	Total quality educational management	13	Pretoria	AROS
14	Orientation programme for circuit managers	Leadership and Management	42	Northern Cape	NCED

The following workshops took place during 2016:

	Number of teachers involved	Number of schools involved	Number of teachers supported	Funder
Natural Sciences workshops	32	21	7	Tronox Namakwa Sands
On-site support offered to teachers	15			

## Highlights

Accreditation by SAQA of seven Advanced Diplomas in Education (ADEs):

- ADE in Further Education and Training (FET) Mathematics Teaching
- ADE in Mathematical Literacy Teaching
- ADE in Intermediate Phase Mathematics Teaching

- ADE in Senior Phase Mathematics Teaching
- ADE in FET Life Sciences Teaching
- ADE in Senior Phase Natural Sciences Teaching
- ADE in FET Physical Sciences Teaching



# SCHOOL BASED INTERVENTIONS (SBI)

## Research

Teacher  
Professional Learning  
(TPL)

School Based  
Interventions  
(SBI)

University  
Preparation  
Programmes (UPP)  
HOPE@Maties  
SciMathUS

Administration  
Services

The focus in this component is to offer learners supplementary tuition so that all of them may access higher education after completing school. In 2016, this took place on Saturdays or during the school holidays.

- ▷ Top achieving learners from rural areas are selected for SBI programmes.
- ▷ Excellent tutors present consolidation and revision classes in the gateway subjects in an effort to help learners improve and extend their subject skills and content knowledge.
- ▷ Enhancing learners' research skills is priority for SUNCEP as this is a key topic in the current secondary school education system and a very necessary skill for higher education.

Without the generous donations from our funders learners would not have been afforded opportunities which most likely may improve their academic achievements through SUNCEP's initiatives.



The following supplementary tuition sessions / SBI activities were offered during 2016:

Geographical area	Grades involved	Activity/ intervention	Number of participants	Funders involved
Atlantis	Grades 7-12	Mathematics, Natural & Physical Sciences	122	Atlantis Industrial Consortium consisting of: AMC Cookware Atlantis Foundries GRI Wind Steel SA Kaymac t/a Kaytech Pres Les Seagull Industries Stripform Packaging Swartland Boudienste TRW Occupant Restraints
Worcester (Breede River Valley)	Grade 5-7	Mathematics & Afrikaans	75	Bosjes Trust
Worcester	Grades 8-10	Mathematics, Natural & Physical Sciences	90	PA & Alize Malan Gedenktrust
Worcester	Grade 10&11	Mathematics & Physical Sciences	43	USA Department of Health and Human Services' Health Research and Services Administration (HRSA)
Malmesbury	Grade 10-12	Mathematics & Physical Sciences	56	
Villiersdorp	Grade 10&11	Mathematics & Physical Sciences	28	
Springbok	Grade 10, 11&12	Mathematics, Life Sciences & Physical Sciences	90	Trans Hex & West Coast Resources
Franschhoek	Grade 8&9	Mathematics & Natural Sciences	80	Rupert Onderwysstigting
Stellenbosch region	Grades 7-12	The 16th Expo for Young Scientists Exhibition hosted by SUNCEP in collaboration with the Faculty of Science in August	300 learners from 27 schools exhibited 211 projects	Eskom Holdings & Eskom Expo for Young Scientists Het Jan Marais Nationale Fonds Stellenbosch University (SU) Toyota SA
			These learners won 136 medals and 40 special prizes	
		International Science Fair (ISF) in Boksburg in October	17 learners from 13 schools represented this region	
			These 17 learners won 3 silver, 11 bronze, 3 certificates of commendation;	
Olifants River Region	Grades 4-9	Natural Sciences Roadshow with Ithemba Labs	Approximately 1170	Tronox Namakwa Sands 2B Smart Trust
	Grades 4-12	Popular Physics Roadshow	700	
	Grade 9	Mathematics 2bSmart initiative	350	
	Grades 7-12	Vredendal area learners who participated in the West Coast regional Eskom Expo for Young Scientists	30	

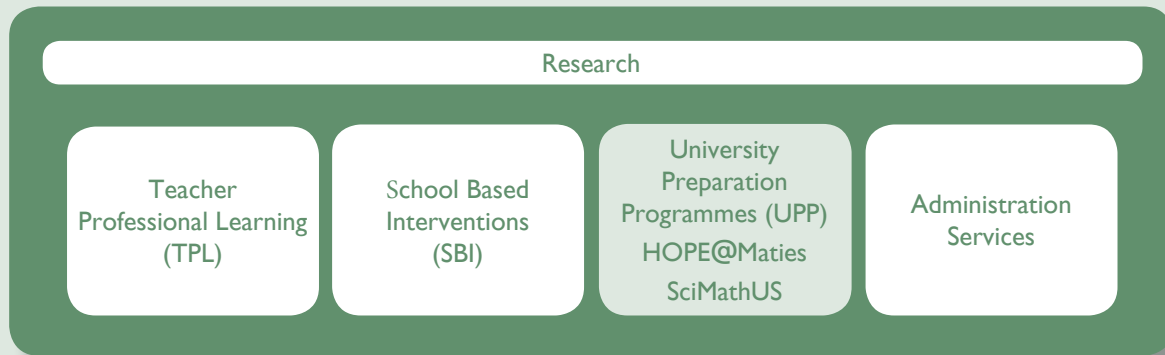


## Highlights

- Approximately 3 200 learners participated in SBI activities during 2016 - 74 of these learners were in Grade 12 and more than 30 of them successfully accessed tertiary education.
- In 2016 at least 24 learners who took part in SUNCEP's SBI programmes registered for full time study at one of the four universities in the Western Cape Province.
- At the International Science Fair (ISF), Asiphe Thwesha of Masibambane Secondary School was awarded a special prize by SIEMENS which included a science experimental kit and a laptop for her school. Fransie Streicher of Curro Hermanus bagged the first prize in the Chemistry category awarded by the Royal Society of Chemistry; a bursary from Stellenbosch University; a bursary from the University of the Witwatersrand and the University of Pretoria Derek Gray Memorial Award.
- In November 2016, SUNCEP and the WCED discussed closer collaboration to increase participation by more learners in EXPO (and other Science-related) competitions.
- Mrs Erika Hoffman, EXPO chairperson of Stellenbosch Expo for Young Scientists, accompanied two South African girls, Amalia Geldenhuys from Vredendal and Gabriella Fedetto from Johannesburg to the International Environment & Sustainability Project Olympiad (INESPO) in Amsterdam in the Netherlands.



# UNIVERSITY PREPARATION PROGRAMMES (UPP)



To improve the access of students to higher education, SU – through SUNCEP – offers two university preparation programmes (UPP): HOPE@Maties as a first opportunity UPP and SciMathUS as a second opportunity UPP.

These programmes form the final stage of the pipeline approach to assist learners to access higher education.

- ▶ HOPE@Maties offers supplementary tuition to Grade 12 learners during school holidays or on Saturdays.
- ▶ Entry requirements in 2016: Learners who have passed Grade 11 with a minimum average of 70% and a minimum of 60% in Mathematics.

Congratulations to the HOPE@Maties group of 2016 with these excellent NSC results

HOPE@Maties	Western Cape results	Northern Cape results
Number of participating learners in 2016	236	57
NSC average of group	77.95%	79.67%
Subject average in Mathematics	71.99%	80.08%
Subject average in Physical Sciences	71.96%	76.92%
Subject average in Accounting	81.87%	80.88%
Distinctions in Mathematics	69 of 236 (29% of the group)	33 of 57 (58% of the group)
Distinctions in Physical Sciences	63 of 191 (33%)	22 of 55 (40%)
Distinctions in Accounting	84 of 132 (64%)	14 of 25 (56%)
Number of students who passed the NSC examination with distinction	92 of 236 (39%)	28 of 57 (49%)
Number of HOPE@Maties learners on the province's top achievers list	7	6 (including the top performer for the second year in a row)
Number of tutors involved	18	6
Number of learners who enrolled at SU in 2017	158 4 in SciMathUS	16 1 in SciMathUS
Number of former HOPE@Maties students (from 2012 onwards) who graduated at the SU at the end of the 2016 academic year	60	No students from this province could have graduated yet, as the programme only started in 2012 in this province
Funders	SU	Northern Cape Department of Education

SciMathUS offers a one year programme for learners who have already passed Grade 12 and who want to improve their NSC results to be able to access higher education or degree programmes with high entry requirements.

The programme's entry requirements in 2016 were:

- ▷ NSC average of at least 60% (excluding Life Orientation);
- ▷ a minimum of 50% in Afrikaans or English (Home Language or First Additional Language); and
- ▷ a minimum of 45% in Mathematics and Physical Sciences or Accounting.

Congratulations to the SciMathUS group of 2016 with these excellent NSC results

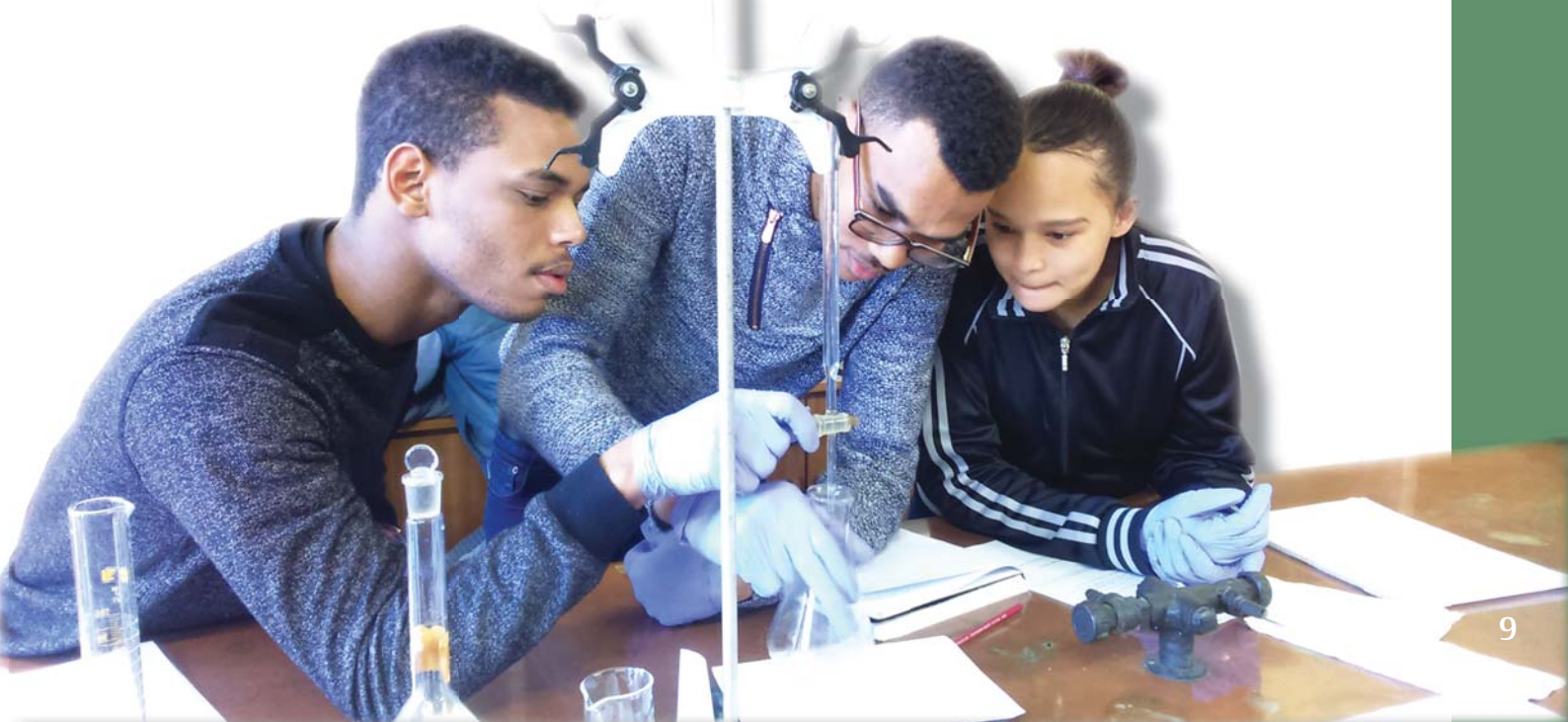
SciMathUS	Results in 2016
Number of participating learners in 2016	97
Average in Mathematics before attending SciMathUS	53%
Average in Mathematics after attending SciMathUS	69%
Distinctions in Mathematics	9 of 97 (9%)
Average in Physical Sciences before attending SciMathUS	55%
Average in Physical Sciences after attending SciMathUS	73%
Distinctions in Physical Sciences	15 of 73 (21%)
Number of full time facilitators involved	5
Number of learners who enrolled at SU in 2017	85 of 97 (87%)
Number of former SciMathUS students (from 2012 onwards) who graduated at the SU at the end of the 2016 academic year	56
Funders	AM & M le Roux, Een Aarde Stichting (Ndl), Eskom Development Foundation, Het Jan Marais Nationale Fonds, JB Marks Education Trust, Siyakha Education Trust, Nordex, Nedbank Eyethu Community Trust, Rand Merchant Bank Fund, Remgro, Stellenbosch University: Division for Social Impact, Tronox Namakwa Sands, Upstream Training Trust

## Highlights

- Kevin Naude, a young man from Stellenbosch, who attended the SciMathUS programme in 2016, was the top performer in Physical Sciences in this programme. For this achievement he received an award jointly

presented by the Government of the Western Cape (Winelands District) and the Department of Education in the Cape Winelands District.

- 106 former UPP participants graduated at SU at the end of the 2016 academic year.





# RESEARCH

## Research

Teacher  
Professional Learning  
(TPL)

School Based  
Interventions  
(SBI)

University  
Preparation  
Programmes (UPP)  
HOPE@Maties  
SciMathUS

Administration  
Services

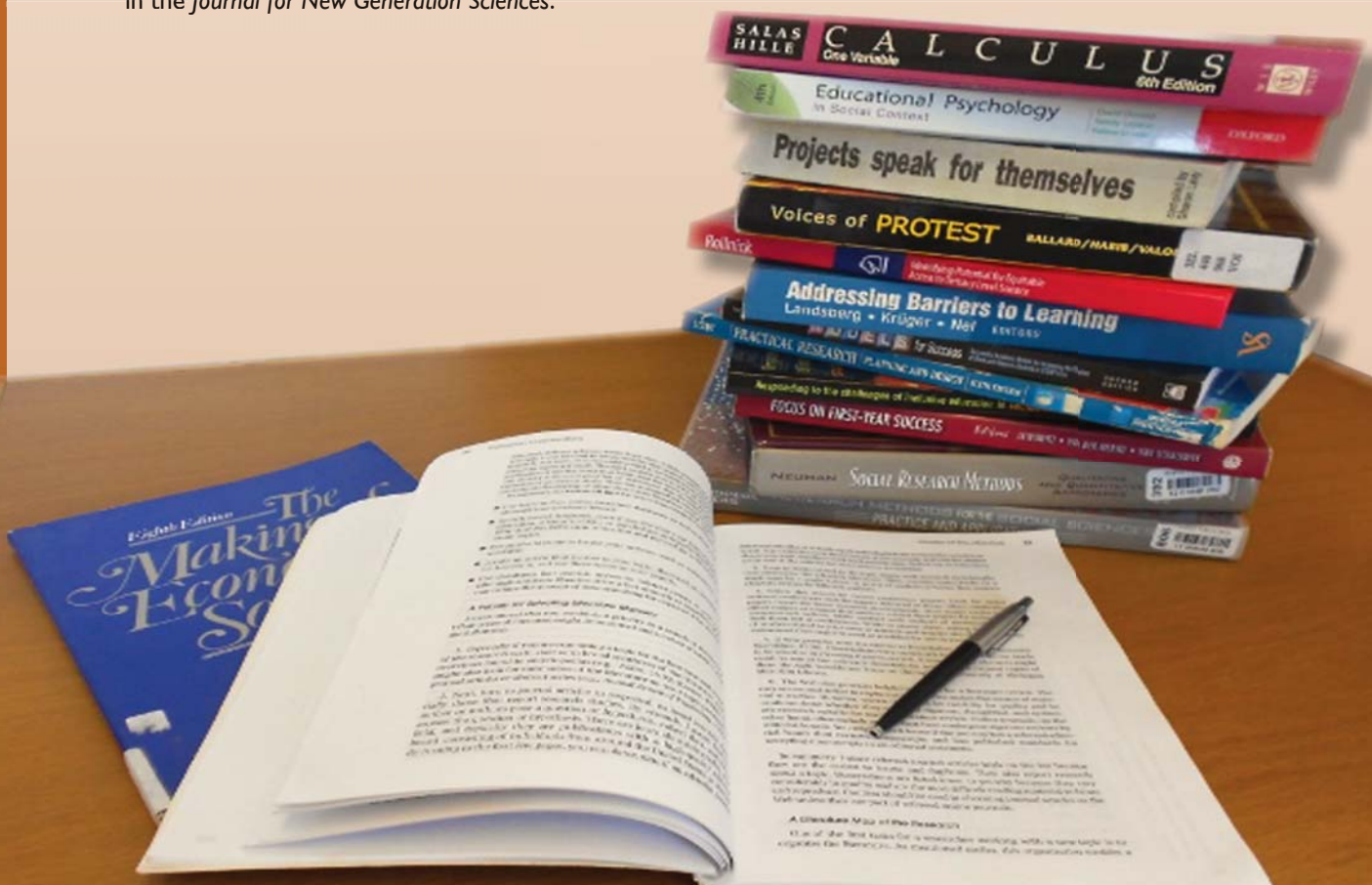
## Research activities for SUNCEP 2016 Annual Report

### Journal articles – Submitted

- **Ndlovu, M.** & Mostert I. Teacher perceptions of Moodle and throughput in a blended learning academic in-service programme for secondary mathematics. *Africa Education Review* (in press).
- Du Plessis, H., **Ndlovu, M.** & Fourie-Malherbe, M. The potential of advanced programme mathematics to bridge the gap between school and university mathematics. Under revision in *Pythagoras*.
- **Ndlovu M.** Challenges for Olympiads and competitions in the country: Experiences from a regional expo for young scientists. Under review in the *Journal for New Generation Sciences*.

### Popular opinion articles

- **Lourens, E.** The employability of higher education graduates: are qualifications enough? Econ 4x4. Available at: <http://www.econ3x3.org/article/employability-higher-education-graduates-are-qualifications-enough>
- **Malan, S.B.** (2016). Flipping Economics with extended degree programme students in the faculty of Economic and Management Sciences. *Blended Learning Case Studies*. Centre for Learning Technologies. Stellenbosch University (2015):12-16.



## Ongoing Component Research Projects

- **SBI project 1:** An analysis of practice-based learning in a case study involving teachers and learners – project leader: Andrew Fair.
- **SBI project 2:** Case studies of successful participation in the Expo for Young Scientists science fairs – project leaders: Andrew Fair & Erika Hoffman.
- **TPL project:** Initial reflections on the use of tablets in a SUNCEP teacher professional learning programme – project leaders: Ramesh Jeram & Pauline Hanekom.
- **UPP project:** Exploring the experiences of students during project-based learning – project leader: Nokwanda Siyengo.
- **FINLO project:** Understanding the problem-based learning approach in a foundation programme at a South African university – project leader: Mdu Ndlovu.

## Completed research degree studies by SUNCEP staff members

- **Lourens, E.:** SciMathUS Physical Sciences facilitator. PhD in Higher Education. From graduate to employee: exploring the journeys of first-time entrants into the labour market.
- **Theron, J.:** SciMathUS Language proficiency facilitator. PhD in General Linguistics: Listening in HIV counselling and testing: hearer signals in rural patient counsellor HIV.

## International Conferences in 2016

- **Fair, A. & Ndlovu, M. (2016).** An Evaluation of a Teacher Professional Learning Model in a School Based Intervention Programme. 24<sup>th</sup> Annual Conference of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE2016) hosted by Tshwane University of Technology, 12 – 15 January 2016 in Pretoria.
- **Ndlovu, M. & Mostert, I. (2016).** The efficacy of Moodle as a learning management system: Teacher perceptions of Moodle and throughput in a qualification-based teacher professional development programme for secondary mathematics. 24<sup>th</sup> Annual Conference of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE2016) hosted by Tshwane University of Technology, in Pretoria, 12 – 15 January 2016.

- **Ndlovu, M. (2016).** Invited Keynote Speaker: Topic 1: Alignment of learning outcomes: some reflections of an M & D thesis assessor. Topic 2: Double blind peer review as a quality assurance mechanism: Reflections of a peer reviewer. 3rd Annual Emerging Dialogue in Higher Education Assessment Conference, Birchwood Hotel, Johannesburg, 25 – 26 February 2016.
- **Ndlovu, M. (2016).** Invited lecture: Themes, paradigms and theories in research on the professional development of mathematics teachers in South Africa, 2006-2015. 13<sup>th</sup> International Conference on Mathematics Education (ICME-13) held from 24 July – 1 August 2016, in Hamburg, Germany.
- **Ndlovu, M. (2016)** Appointed member of the ICME-13 conference: Scientific Committee.
- **Ndlovu, M. (2016)** Appointed member of the Scientific Committee of the international conference on Education and New Developments (END2016) – held from 12 – 14 June 2016 in Ljubljana, Slovenia.

## National Conferences and (local) Symposia in 2016

- **Fair, A. (2016).** Chasing student numbers or quality results through teacher professional learning in a school based intervention programme. January 2016 Education Association of South Africa conference (EASA2016), 17 – 20 January 2016, Arabella, Hermanus.
- **Hoffman, E. (2016).** Teacher self-reflection and mentor observation as flip sides of practice-based professional learning and mentoring – initial findings. January 2016 Education Association of South Africa conference (EASA2016), 17 – 20 January 2016, Arabella, Hermanus.
- **Jeram, R. & Hanekom, P.W. (2016).** Initial reflections on the use of tablets in a SUNCEP Teacher Professional Learning programme. January 2016 Education Association of South Africa conference (EASA2016), 17 – 20 January 2016, Arabella, Hermanus.
- **Ndlovu, M. (2016).** Invited Keynote Speaker: Learner perceptions of inquiry in science fair projects: A case study of a regional science fair in South Africa. First Annual Conference of Science, Technology, Engineering, Mathematics & Innovation (STEMI) Olympiads and Competitions Community of Practice, Johannesburg, 14 – 16 March 2016.

- **Malan, S.B.** (2016). iByte-session – Guest speaker: The challenges of a flipped classroom. EMS faculty, Stellenbosch University, March 2016.
- **Malan, S.B.** (2016). iByte-session Guest speaker: The flipped classroom: opportunities and challenges. Department of Sports Sciences, Stellenbosch University, April 2016.
- **Ndlovu, M.** (2016). Some reflections on the poetics, problems and pragmatics of article writing. Guest Speaker at the Faculty's Research Seminar, May 2016.
- **Pfeiffer, C.** (2016). Assessment for teaching and learning (formative assessment), Cape Winelands District Assessment conference, Worcester, September 2016.
- **Fair, A. & Ndlovu, M.** (2016). Attended an Academy of Science for South Africa (ASSAf) workshop on mathematics in higher education science teaching, Verde Hotel, Cape Town, September 2016.
- **Malan, S.B.** (2016). Presenter: I flipped it. Now what? Scholarship of Teaching and Learning (SoTL) conference, Lord Charles Hotel, Somerset-West, October 2016.
- **Malan, S.B.** (2016). Guest Speaker at the Annual Teaching Day (Teaching@EMS): Assessment for Learning – some practical strategies. iThemba 2, Africa Centre, Stellenbosch University, November 2016.

## Other (Prof Mdu Ndlovu)

- **Ndlovu, M.**
  - o Postgraduate Supervision of 4 PhD students and 1 MEd student.
  - o External examination of 2 PhD theses and 1 MEd thesis.
  - o Peer reviewed eight articles from the DHET list of accredited journals.
  - o Peer reviewed accredited national (AMESA2016 & ISTE2016) and international (ICTMA-17) conference proceedings papers and abstracts (end 2016).
  - o Peer reviewed one NRF/FRF Research and Development Chair application, one NRF Freestanding PhD funding application and one NRF Thuthuka funding proposal.
- **Ndlovu, M. & Pfeiffer, C.** (2016-2017).
  - o Appointed as Local Organising Committee (LOC) members of the ICTMA-18 conference to be hosted by Stellenbosch University in Cape Town from 23-28 July 2017.

## Individual practice-based research projects in progress

- Cerenus Pfeiffer – PhD in Mathematics Education.
- Pauline Hanekom – PhD in Curriculum Studies (Science Education).
- Christa Philander – PhD in Curriculum Studies (Science Education).
- Ramesh Jeram – PhD in Education Policy Studies.
- Danelda van Graan – MPhil in Higher Education.

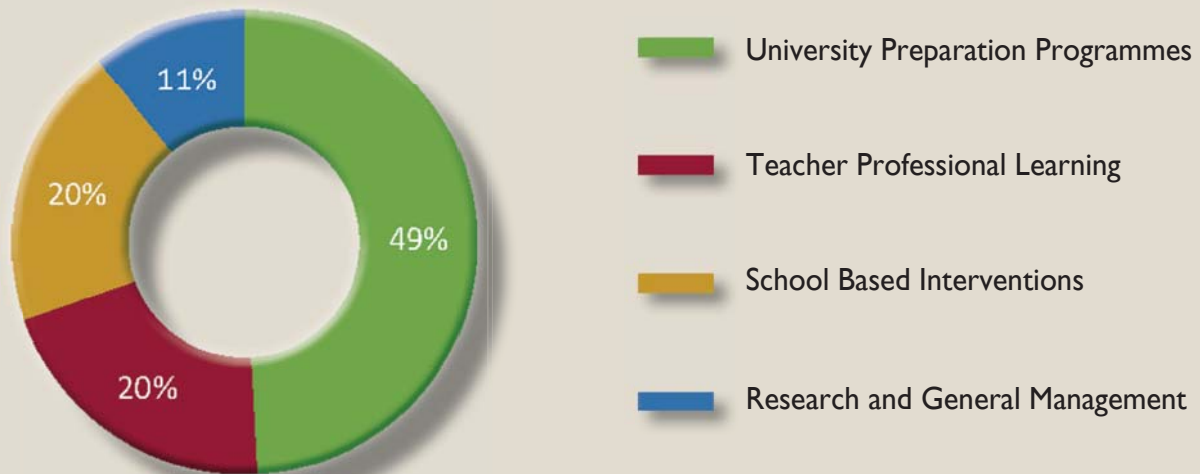




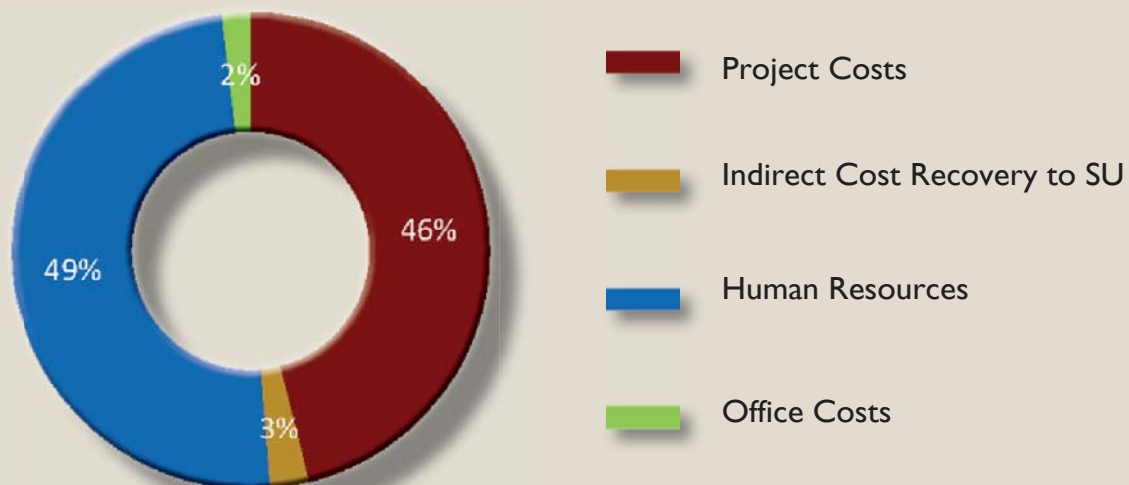
# FINANCES

SUNCEP project income to support various interventions in Teacher Professional Learning, School Based Interventions, University Preparation Programmes, Research and General Management

## SUNCEP PROJECT INCOME 2016



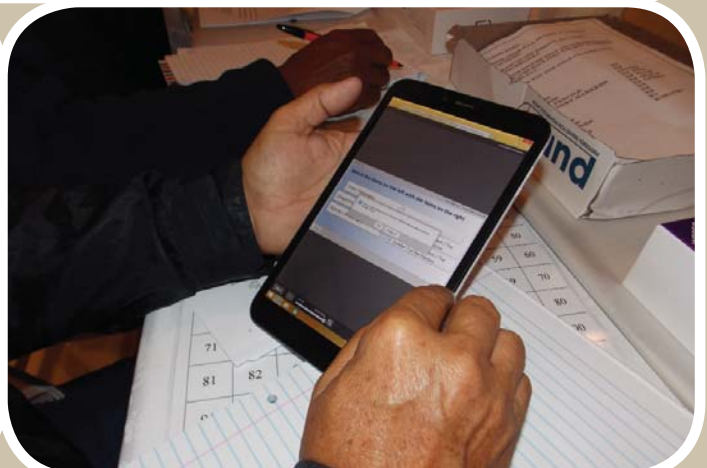
## SUNCEP CATEGORIES OF EXPENDITURE IN 2016





## IN 2017 SUNCEP WILL BE:

- enhancing e-learning and e-teaching with e-mentoring;
- offering a short course in ICT Integration to school principals;
  - presenting subject-specific accredited, aligned and SACE endorsed short courses for teachers;
- offering a data analyses and data management course for education district officials;
  - presenting a Scholarship of Reading course for learning support teachers;
  - establishing a new supplementary education project in Stellenbosch;
- consolidating an existing supplementary education project in Atlantis in the FET phase;
  - housing all the SciMathUS students in one residence on campus;
- growing its national footprint via the Talent Development Programme, offered in collaboration with the Department of Science and Technology;
  - increasing its research output.



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