



# ***2017 ANNUAL REPORT***

***Imagine, Provoke & Change***

## About this report

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This report covers the Institute's activities from January 2017 until December 2017. Such activities acknowledge the interventions by the ICC in the areas of research, education, community engagement, and advocacy.

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## **A Review by the Chair of Department**

It was nine years ago (give or take a month or two) that writing the Head of Department's reflections in the Annual Report became part of my annual to-do list. And, I must confess that it was with these nine years in mind (rather than just 2017) that I sat down to write this, my final reflection as the Head of the ICC. Now this is not just an innocent way of opening up this reflection. It is a warning: I am afraid that you are going to have to indulge me a little and put up with a bit of reminiscing that will take in nine years and not one. If you like, this is a reflection on nine years of reflection.

So, looking at my Annual Report reflections over the past nine years, I think that these can be broadly divided into two periods:

- 2009 – 2011
- 2012 – 2016

My reflections in the first period (2009 – 2011) were characterised by a distinctly inward focus. When I took over the role of Head in 2009, we were still the Centre for Corporate Citizenship populated by a precariat of contract employees. We started 2009 fundamentally disengaged from the broader institution, and particularly from our technical home in the School of Management Science in the College of Economic and Management Sciences. The introspective task of correcting this, embedding us into the School and College was the focus of much of my reflection in the 2009 Annual Report. In my 2010 reflection, my focus shifted to our metamorphosis from the Centre for Corporate Citizenship into the Institute for Corporate Citizenship. Finally, in 2011, my focus was on the transition of our academic team from a precariat of contract staff into a generally tenured group.

From 2012 on, two shifts were apparent in my reflections. Firstly, the reflections became much more outward looking. Much greater attention was paid to the broader national and indeed global milieu in which the Institute's activities were conducted. Secondly, my reflections on what we had achieved, particularly in terms of our research, became increasingly sophisticated with each passing year.

In terms of the shift towards being more outward looking, it is tempting to imagine that this was precipitated by my transition out of the precariat and into the realm of tenured academia – that this change created the conditions necessary for the exercise of a scholarly responsibility

of being critical of what we see. But perhaps it was just a question of growing up? Or of the world out there simply *demanding* greater attention? Either way, in 2012 it was Marikana that captured my attention. I wrote:

*“Despite a gallant attempt on the part of the African National Congress to rekindle 2010’s carnival atmosphere in its centenary year, events on the 16<sup>th</sup> August in Marikana shattered any pipe dream that we have arrived at Utopia.”*

In 2013, food price inflation, the glaring un-soundness of certain National Development Plan arguments and the inevitable service delivery protests caught my attention. And with Madiba passing away even more of the thin gilding of South Africa’s so-called liberation fell away. In 2014, the focus of my reflection was on disgraceful poverty in South Africa; with Statistics South Africa reporting that somewhere close to one out of every five South Africans lived below the food poverty line. In 2015, my focus was again on South Africa’s poverty, however, this time this manifested much closer to home in year one of the #FeesMustFall movement. And, I suppose that given all of these reflections it was almost inevitable that by 2016 I was concluding that with every passing day post 1994, the refrain “*Freedom’s just another word for nothin’ left to loose*” (Kristofferson) seemed to become more and more apt. On a global front, between 2012 and 2015, I frequently highlighted flimsy responses to environmental sustainability challenges and in 2016, I commented on the rise of the right in Western Europe and the U.S.A.

These social woes presented me with a backdrop for reflecting on our achievements. From 2013 onwards, this reflection on achievements was framed in terms of our vision comprising three words: Imagine, Provoke, Change. “Imagine” a more just and sustainable society. “Provoke” business to; meaningfully consider these imaginings through the magic of academic action. “Change” things for the better. Needless to say, these reflections on our achievements proved to be an extremely humbling task. Over the years, I have been able to report on an awful lot of imaginings. I have been able to reflect on some provoking, particularly through our delivery of the College’s signature module Sustainability and Greed. However, real change has really seemed like a demoralizingly distant dream.

Which brings me to 2017 and I suppose that it is almost inevitable that after all of these years of outward looking, this reflection is once again a little introspective. There are two things that I would like to highlight:

- a) Our move from Hazelwood back to Muckleneuk; and
- b) Our five-year review.

In terms of our relocation from the Hazelwood campus back to the Muckleneuk campus, this was an exceptionally traumatic process for myself personally and for my team. To say that the planning on the part of the university was poor would be a very grave understatement. And as the affected employees we were excluded from deliberations until we eventually had to invade Mancom (literally) and insist that we be engaged. Beyond having to fight for a voice within the university, we were confronted with landlords from Atterbury Property who made our final months as uncomfortable as possible culminating in them even preventing our furniture from being moved. All in all this is not how things ought to have been done.

Thankfully, in the first week of December we were moved into our new offices. There is however a grey cloud around this line of silver. Our colleagues from the Department of Decision Sciences who we shared a floor with us in Hazelwood are still existing in awful conditions and there is apparently no end in sight for their situation. Frankly that dedicated employees can be treated this way is unfortunate and I am afraid says a lot about the state of “things” in Unisa in terms of employee relations. The story of our five-year review is somewhat more positive. During the course of 2017, we conducted our first formal five-year review as prescribed in the Policy. The feedback from reviewers both external and internal was at once sobering and complimentary. The final report from this process was approved by the University Senate and is available *on request*.

Which brings me to the part of my reflection where I always tend to become emotional. On a personal level, the past nine years have been an incredibly exciting time for me and most of this excitement has been mediated by the team in the ICC. Asanda Madikizela has been a pillar of consistency and institutional memory since the beginning of time (or so it seems). She has completed two degrees since I have been the Head and I have no doubt she will go on to become Dr Madikizela sooner rather than later. Godwell Nhamo who I recruited early in my term, and who accompanied me from the precariat into the professoriate in 2011 has been consistently outstanding in his productivity as the Exxaro Chair. Mariki Eloff (who will take over as Acting Head once I step down) has been a wonderful companion and stabilizing force since she joined the ICC in 2012. Matimba Novela joined as the departmental secretary in 2013 and has run a very tight ship since then, particularly in terms of the administration of the Sustainability and Greed module. Lastly, but most definitely not least there is the future of the

Institute in the form of Nompe Ntombela and Busi Magagula who both joined as junior lecturers in 2012 and in 2013 respectively. Both have since proceeded from being junior lecturers to lecturers. And both are well on track to take over as the Head of the Institute at some stage in the not too distant future. Busi Magagula graduated with a MA in research psychology with dissertation titled “An exploration into the social support experiences of unemployed graduates” under the supervision of Prof KG Skosana. We can also congratulate her on this fine achievement!

Thanks for the opportunity to reflect.

Prof Neil Eccles

Head: ICC 2009 - 2017

# 1. Research programmes

The Institute's vision seeks to "*IMAGINE/DREAM of a more just and sustainable world; PROVOKE business to meaningfully consider these imaginings through the magic of academic action; and in doing so CHANGE things for the better*".

Therefore, through its research, the ICC asks pertinent questions aimed at enhancing the role and contribution of business to sustainable development. This, it does under the following four (4) research programmes:

- 1.1 Exxaro Chair in Business and Climate Change
- 1.2 Programme in Information security and social responsibility
- 1.3 Programme in Responsible Investment
- 1.4 Programme in Teaching Business Ethics

Programme leaders of the abovementioned programmes are engaged in research and education, the supervision of postgraduate students and community engagement within their respective fields.



# 1.1. Exxaro Chair in Business and Climate Change

*By: Prof Godwell Nhamo*

## **Brief summary about the Chair and it's fit to the ICC vision**

The chair was established in 2008 with a life span of three years. Following the Chair's success, Exxaro Resources (Ltd), through its Chairman's Fund renewed the Chair's mandate for five years to 2015. The Chair's life was further extended to 2018 at no cost with the development of a new proposal to refinance it from 2019 to 2023 done in 2017.

The vision of the Chair is "To create a centre of excellence in business and climate change research, education and advocacy-oriented community engagement". Its mission is "To support South African and African stakeholders (including business, government and civil society) in their quest to reduce greenhouse gas emissions and adapt to climate change through relevant and cutting-edge research, education and advocacy-oriented community engagement programmes". The Chair is mandated to operate in three thematic areas aligned to the ICC namely, research, academic programme development (including training and capacity building), and advocacy-oriented community engagement.

The Chair's dedicates between 70-80% of its time of research. The following are key impact areas of the Chair's focus: M&D research and supervision, book publications, journal articles publications, postdoctoral fellowship programme, as well as conferences, general and multi-level peer academic mentoring and research administration. To align with the ICC's vision and mandate, the chair's research agenda is streamlined to focus on business, and how it addresses climate policy in terms of understanding, interpretation and how it is likely to influence and impact policy at national, regional and international levels. Such engagement includes a focus on the transition to a low carbon economy (i.e., issues surrounding green/sustainable procurement), energy and climate change, integrated reporting, sustainable development (including the Sustainable Development Goals) and other emerging issues.

## **2017: THE YEAR IN REVIEW**

The activities of 2017 followed both the mandates of the ICC and the chair. This resulted in a strong research focus to which the chair is happy to report that there was satisfactory progress. The work of the chair was recognised both externally and internally through the following awards:

1. Rhodes University Distinguished Old Rhodian Award for having reached exceptional heights in his chosen career by maintaining excellence in the field and service to society
2. Unisa Vice Chancellor Award of Research Excellence
3. Unisa Prestigious External Research Award and Recognition
4. Semi-Finalist in the CEO Global Titans Awards and
5. CEMS Academic with Exceptional Research Quality outputs
6. CEMS Academic for M&D Supervision contribution.

Reflecting back, the chair is satisfied with the achievements made as per the annual and other related plans.

## SUMMARY OF THE 2017 ACTIVITIES

### 1. Publications

Journal papers	<ol style="list-style-type: none"> <li>1. Nhamo, G. and Nhamo, S. (2017). Gender and geographical balance: With a focus on the UN Secretariat and the Intergovernmental Panel on Climate Change. <i>Gender Question</i>. <a href="https://doi.org/10.25159/2412-8457/2520">https://doi.org/10.25159/2412-8457/2520</a></li> <li>2. Mlhangana-Ndlovu, N.B.F. and Nhamo, G. (2017). An assessment of Swaziland sugarcane farmer associations' vulnerability to climate change, <i>Journal of Integrative Environmental Sciences</i>, 14:1, 38-56, DOI: 10.1080/1943815X.2017.1335329.</li> <li>3. Muchuru, S. and Nhamo, G. (2017). Climate change adaptation and the African fisheries: evidence from the UNFCCC National Communications. <i>Environment, Development and Sustainability</i>. DOI 10.1007/s10668-017-9960-6.</li> <li>4. Bimha, A. and Nhamo, G. Measuring Environmental Performance of Banks: Evidence from Carbon Disclosure (CDP) Reporting Banks. (2017). <i>Journal of Economic and Financial Sciences   JEF</i>   April 2017 10(1), pp. 26-46.</li> <li>5. Muchuru, S. and Nhamo, G. (2017), Climate change and the African livestock sector: emerging adaptation measures from UNFCCC national communications, <i>International Journal of Climate Change Strategies and Management</i>, Vol. 9, 241-260. <a href="http://dx.doi.org/10.1108/IJCCSM-07-2016-0093">http://dx.doi.org/10.1108/IJCCSM-07-2016-0093</a>.</li> <li>6. Elum, Z.A, Modise, D.M and Nhamo, G. (2017). Climate change mitigation: the potential of agriculture as a renewable energy source in Nigeria, <i>Environmental Science and Pollution Research</i>, DOI 10.1007/s11356-016-8187-7. Vol.24:3260–3273.</li> </ol>
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	<ol style="list-style-type: none"> <li>7. Bimha, A and Nhamo, G. (2017). Sustainable Development, Share Price and Carbon Disclosure Interactions: Evidence from South Africa's JSE 100 Companies, Sustainable Development. Vol. 25, 400–413 DOI: 10.1002/sd.1670.</li> <li>8. Agyepong, A.O and Nhamo, G. (2017). Green procurement in South Africa: perspectives on legislative provisions in metropolitan municipalities, Environment, Development and Sustainability, Vol 19, 2457–2474, DOI 10.1007/s10668-016-9865-9.</li> <li>9. Nhamo, G. (2017). New Global Sustainable Development Agenda: A Focus on Africa. Sustainable Development. Vol. 25, 227–241 DOI: 10.1002/sd.1648.</li> </ol>
Supervision: Masters/ Doctoral students	<ol style="list-style-type: none"> <li>1. Dr Olga Laiza Kupika. Climate Change and Biosphere Reserves: Implications on local livelihoods and wildlife conservation in the Middle Zambezi Biosphere Reserve of Zimbabwe. Chinhoyi University of Technology, Zimbabwe.</li> <li>2. Dr Bongani Chavalala. An Assessment of South Africa's Coal Mining Sector Response to Climate Change Adaption Demands. Unisa, South Africa.</li> <li>3. Elize Trollip - Climate Change Adaptation And South African Wine Industry: A Focus On Northern Cape Province Grape Vine Farmers (ongoing doctoral and student ID 32631537)</li> <li>4. Ernest Peter Ndasowampangi - An Investigation Into Corporate South Africa's Readiness To Implement The Climate Change Sustainable Development Goal (ongoing doctoral and student ID 58537007)</li> <li>5. Kaitano Dube - Tourism and climate change: An investigation of the two-way linkages for the Victoria Falls resort, Zimbabwe (ongoing doctoral student ID 46592385)</li> <li>6. Dumisani Emmanuel Mthembu - An Investigation Into South Africa's Policy Response To Climate Change In The Context Of Sustainable Development Goals (ongoing doctoral student ID 62150618)</li> </ol>
Community engagement	<p>The main CE programme is the biogas research in Melani Village, Alice in the Eastern Cape in collaboration with Fort Hare University and SANEDI as well as the Gauteng and its surrounds biogas project in collaboration with Unisa's IDEAS and SANEDI. The chair is also strongly involved with Unisa's Green Economy and sustainability Engagement Model to which alternative energy projects are part of.</p>

## **2018– THE YEAR AHEAD**

### **i. Research**

The standing research programme will continue with an edited manuscript for the Green Building Book targeted for completion by 31 December 2018. At least two research outputs are planned for the 2018 reporting period with the continued opening up of the Sustainable Development Goals and Climate Governance research spaces. If further funding is realised from Exxaro Resources Limited, the Chair plans to recruit three more staff members on a 4-5 year contract basis to assist with the chair's research and other mandates.

### **ii. Community engagement**

The identified projects from 2017 will continue, although effort will be made to hand over the Melani site officially to Fort Hare University. Scaling up will be done for the Gauteng biogas projects with the partners identified.

### **iii. Supervision**

There will be efforts to prioritise M&Ds already in the system and having at least one doctoral thesis submitted by December 2018. Effort will also be made to recruit replacements for completing doctoral scholars. At least one doctoral candidate will be recruited.

## 1.2. A programme on Information Security and Social Responsibility

By: Prof Mariki Eloff

### Brief summary about the programme and it's fit to the ICC vision

This programme focuses on the importance of information security in the corporate environment and investigates how organisations can and do contribute to the improvement of information security in different ways. These include adherence to legal requirements pertaining to information security, such as the ECT Act, the PoPI Act and the like. Their policies need to reflect their commitment to follow the South African laws and guidelines such as the King II and the King III and highlight their contribution to raising information security awareness, not only within their own organisations but in the wider society as well.

### 2017: THE YEAR IN REVIEW

The past year was a productive year in terms of research and supervision. The impact of security awareness of all users as well as the responsibility of organisations in assuring they adhere to the legal requirements as for example set out in the POPIA Act was well reported on in both publications and the finalisation of Johnny Botha's dissertation. Security Awareness for all will stay an ongoing concern because humans are involved.

### SUMMARY OF 2017 ACTIVITIES

#### Publications

Journal papers	1. Ochola E.O., Mejaele, L.F., <u>Eloff M.M.</u> , van der Poll J.A., Manet reactive routing protocols nodes mobility variation effect in analysing the impact of black hole attack. <i>South African Institute for Electrical Engineers Africa Research Journal (SAIEE - ARJ)</i> Vol 108(2), pp. 80-91. June 2017
Conference proceedings	2. Dlamini M.T., Eloff J.H.P., Venter H.S., <u>Eloff M.M.</u> , Eyono R.H. & Mosola N., Behavioural Analytics: Beyond Risk-based MFA, <i>Proceedings of Southern Africa Telecommunication Networks and Applications Conference, SATNAC 2017</i> , ISBN 978-0-620-76756-9, pp 312-317, 3 - 10 September 2017 on the Freedom of the Seas Cruise Liner operated by Royal Caribbean International. 3. Chaipa S., <u>Eloff M.M.</u> , Towards the development of an effective intrusion detection model, at 16th International Information Security South Africa (ISSA) Conference, ISBN

	<p>978-1-5386-0544-8, pp 32-39, 16 - 17 August 2017, Johannesburg, South Africa.</p> <ol style="list-style-type: none"> <li>4. Mujinga M., <u>Eloff M.M.</u> &amp; Kroeze J.H., A Socio-Technical Approach to Information Security, at <i>23rd Americas Conference on Information Systems (AMCIS 2017)</i>, 10-12 August 2017, Boston, MA.</li> <li>5. Botha J., Grobler M.M., <u>Eloff M.M.</u>, Global Data Breaches Responsible for the Disclosure of Personal Information: 2015 &amp; 2016, <i>ECCWS 2017, 16th European Conference on Cyber Warfare and Security</i>, pp 63-72, <a href="http://tinyurl.com/ECCWS2017">http://tinyurl.com/ECCWS2017</a>, E-Book ISBN: 978-1-911218-44-9, E-Book ISSN: 2048-8610, Book version ISBN: 978-1-911218-43-2, Book Version ISSN: 2048-8602. 29-30 June 2017, Dublin, Ireland</li> <li>6. Botha J., Hahn J., Grobler M.M., <u>Eloff M.M.</u>, A High-Level Comparison between the South African Protection of Personal Information Act and International Data Protection Laws, at <i>the 12th International Conference on Cyber Warfare and Security – ICCWS-17</i>, pp 57-66, E-Book ISBN: 978-1-911218-26-5, E-Book ISSN: 2048-9889, Book version ISBN: 978-1-911218-25-8, Book Version ISSN: 2048-9870, Dayton, Ohio, USA, 2-3 March 2017</li> </ol>
Supervision: Masters/ Doctoral students	<ol style="list-style-type: none"> <li>1. PhD; Frangopoulos E D “Information System Security, ongoing</li> <li>2. PhD; Mujinga M. “Towards a framework to promote the development of secure and usable online information security applications”, submitted for examination.</li> <li>3. PhD; Ochola E. “Towards an Optimal Black Hole Attack Detection and Elimination Routing Algorithm in Mobile Ad-Hoc Networks” ongoing</li> <li>4. MSc (Computing); Agbaje AS; ”Information Security Awareness” new registration</li> <li>5. MSc (Computing); Maphosa M; Exploring Project Management Maturity Models in Information Technology Organisations versus Other Organisations: A South African Viewpoint” Unisa, South Africa, graduated</li> <li>6. MSc (Computing); Motsitsi D; “From awareness to practice: A practical approach to creating cyber security awareness under personal internet users.” ongoing</li> <li>7. MSc (Computing); Mujuru T; “Cyber-security: Considerations for Policymakers and Regulators in Zimbabwe” ongoing</li> <li>8. MSc (IS); Chaipa S; “An Investigation into the Measures for Improving the Detection Accuracy of Intrusion Detection Systems” Unisa, South Africa, graduated</li> </ol>

	<p>9. MSc (IS); Maboe M; “From Disability Policies to Universally Usable Websites for People with Disabilities: The Case of South African Universities”, ongoing</p> <p>10. MTech; Botha J; “The Measurable Effects of the Protection of Personal Information Act Adoption on Personal Identifiable Information Leakages in South Africa” submitted for examination</p>
Community engagement:	<ul style="list-style-type: none"> <li>• Active campaigner for people with disabilities.</li> <li>• Chairperson of the Unisa Employee Disability Forum (UEDF) for a second two year term</li> <li>• Serves on UNISA Institutional Employee Equity Forum.</li> </ul>
Other	Programme and Organising committee member of the ISSA 2016 annual conference

## 2018: THE YEAR AHEAD

### i. Research

- One paper is already accepted for publication in an accredited journal.
- One paper is already accepted at an international conference.
- One paper is submitted to an accredited journal.
- Two papers to be submitted to international conferences.

### ii. Community engagement

Being the chairperson of the UEDF and member of the Unisa Institutional Employee Equity Forum, affords me the opportunity to advocate disability awareness and accessibility for all in Unisa.

### iii. Supervision

Particular attention will be given to the following M&D students who are already in the system:

- Mathias Mujinga, PhD, submitted his thesis for examination.
- Johnny Botha, MTech, submitted his dissertation for examination.
- Motlhabane Maboe will finish his dissertation and submit in 2018.
- Elisha Ochola is also expected to finish in 2018.

# 1.3. A programme on Responsible Investment

By: Prof Neil Eccles

## Brief summary about the programme and it’s fit to the ICC vision

The Responsible Investment Programme seeks to explore the phenomenon of socially responsible investment defined in the broadest sense as investment practices that take into consideration environmental, social and governance matters. It stands to reason that if we can “imagine, provoke, change” the way in which money is invested, such that this becomes an endeavour in pursuit of social good, we are likely to make a difference in this world.

## 2017: THE YEAR IN REVIEW

The focus of our work in 2017 was once again on the issues of fiduciary responsibility any integrated reporting in relation to socially responsible investment. During the course of the year, we presented three papers at international conferences, two of which have subsequently submitted for publication. All three papers were critical and emphasized fundamental contradictions inherent in the underlying subjects (fiduciary responsibility and integrated reporting).

## SUMMARY OF 2017 ACTIVITIES

### Publications

Conference proceedings	<ol style="list-style-type: none"><li>1. Eccles, N.S. 2017. Overcoming constraints imposed by fiduciary duties in terms of tackling “Leadership challenges that matter”? 4th International Conference on Responsible Leadership. 15 – 17 March 2017. The Gordon Institute of Business Science, South Africa. (Subsequently submitted to a special edition of Journal of Business Ethics).</li><li>2. Eccles, N.S., Delpont, P.T. &amp; Mataboge, M. 2017. Fiduciary capitalism: Revisiting dialectics. European Business Ethics Network (EBEN) Research Conference. 6 – 8 September, Athens, Greece.</li></ol>
Supervision: Masters/ Doctoral students	<ol style="list-style-type: none"><li>1. Ms Rene Swart presented a first paper out of her thesis work entitled “The providers of financial capital and responsibility: A South African perspective” at the 4th International Conference on Responsible Leadership. 15 – 17 March 2017. The Gordon Institute of Business Science, South Africa. (Subsequently reworked for submission to Journal of Business Ethics).</li></ol>



## **2017: THE YEAR AHEAD**

### **i. Research**

During the course of this year, we will continue with the exploration of fiduciary duty from the perspective of theories of justice with a distinct emphasis on inherent contradictions.

### **ii. Supervision**

During 2018, Ms Rene Swart will begin writing her thesis with the aim of submitting this by the end of 2018.

## 1.4. A programme on teaching business ethics

*By: Prof Neil Eccles*

### **Brief summary about the programme and it's fit to the ICC vision**

One of the, if not the, most effective ways in which all academia provokes change is through our teaching. In this programme our aim is quite simply to conduct research into how we might best take advantage of this.

### **2017: THE YEAR IN REVIEW**

The emphasis in this programme was on graduate students rather than formal outputs. During the year, one registered PhD student submitted a complete draft of his thesis. Unfortunately, his progress slowed significantly after this due to personal circumstances. A second student successfully defended his PhD proposal.

### **SUMMARY OF 2017 ACTIVITIES**

#### **Publications**

Activity	Highlights
Supervision: Masters/ Doctoral students	Mr Jan Conradie submitted a complete draft of his thesis and Mr Togara Warinda successfully defended his PhD proposal. Mr Yandile Galada submitted an almost complete PhD proposal.

### **2017: THE YEAR AHEAD**

#### **i. Research**

During 2018, we will submit a paper on stereotyping for presentation at the European Business Ethics Research Conference and to the Journal of Business Ethics.

#### **ii. Supervision**

Unfortunately, Mr Conradie will be taking a break from his thesis in 2018, but will hopefully resume in 2019. We are expecting that Mr T Warinda will gather all of his data during 2018 and be in a position to begin writing up in 2019. And we anticipate that Mr Y Galada will finalize his proposal and hopefully begin the process of data gathering during the course of the year.

## 2. ICC Research outputs combined

### Publications

Eleven (11) accredited journal papers with seven (7) peer reviewed conference papers

Type of Output	Full reference
Journal	Agyepong, A.O and <u>Nhamo, G.</u> (2017). Green procurement in South Africa: perspectives on legislative provisions in metropolitan municipalities, <i>Environment, Development and Sustainability</i> , Vol 19, 2457–2474, DOI 10.1007/s10668-016-9865-9.
Journal	Bimha, A and <u>Nhamo, G.</u> (2017). Sustainable Development, Share Price and Carbon Disclosure Interactions: Evidence from South Africa’s JSE 100 Companies, <i>Sustainable Development</i> . Vol. 25, 400–413 DOI: 10.1002/sd.1670.
Journal	Bimha, A. and <u>Nhamo, G.</u> Measuring Environmental Performance of Banks: Evidence from Carbon Disclosure (CDP) Reporting Banks. (2017). <i>Journal of Economic and Financial Sciences</i>   JEF   April 2017 10(1), pp. 26-46.
Journal	Elum, Z.A, Modise, D.M and <u>Nhamo, G.</u> (2017). Climate change mitigation: the potential of agriculture as a renewable energy source in Nigeria, <i>Environmental Science and Pollution Research</i> , DOI 10.1007/s11356-016-8187-7. Vol.24:3260–3273.
Journal	Mlhangana-Ndlovu, N.B.F. and <u>Nhamo, G.</u> (2017). An assessment of Swaziland sugarcane farmer associations’ vulnerability to climate change, <i>Journal of Integrative Environmental Sciences</i> , 14:1, 38-56, DOI: 10.1080/1943815X.2017.1335329.
Journal	Muchuru, S. and Nhamo, G. (2017), Climate change and the African livestock sector: emerging adaptation measures from UNFCCC national communications, <i>International Journal of Climate Change Strategies and Management</i> , Vol. 9, 241-260. <a href="http://dx.doi.org/10.1108/IJCCSM-07-2016-0093">http://dx.doi.org/10.1108/IJCCSM-07-2016-0093</a> .
Journal	Muchuru, S. and <u>Nhamo, G.</u> (2017). Climate change adaptation and the African fisheries: evidence from the UNFCCC National Communications. <i>Environment, Development and Sustainability</i> . DOI 10.1007/s10668-017-9960-6.
Journal	<u>Mukonza, Chipo,</u> (2017). Knowledge, attitudes and perceptions of stakeholders on bio-fuels as an enabler in a South African bio-based economy, <i>Journal of Energy in Southern Africa</i> , 2017, vol.28, n.3, pp.107-118

Type of Output	Full reference
Journal	<u>Nhamo, G.</u> (2017). New Global Sustainable Development Agenda: A Focus on Africa. <i>Sustainable Development</i> . Vol. 25, 227–241 DOI: 10.1002/sd.1648.
Journal	<u>Nhamo, G.</u> and <u>Nhamo, S.</u> (2017). Gender and geographical balance: With a focus on the UN Secretariat and the Intergovernmental Panel on Climate Change. <i>Gender Question</i> . <a href="https://doi.org/10.25159/2412-8457/2520">https://doi.org/10.25159/2412-8457/2520</a>
Journal	Ochola E.O., Mejaele, L.F., <u>Eloff M.M.</u> van der Poll J.A., (2017). Manet reactive routing protocols nodes mobility variation effect in analysing the impact of black hole attack. in <i>South African Institute for Electrical Engineers Africa Research Journal (SAIEE - ARJ)</i> Vol 108(2), pp. 80-91. June 2017
Conference	Botha J., Grobler M.M., <u>Eloff M.M.</u> , (2017). Global Data Breaches Responsible for the Disclosure of Personal Information: 2015 & 2016, <i>ECCWS 2017, 16th European Conference on Cyber Warfare and Security</i> , pp 63-72, <a href="http://tinyurl.com/ECCWS2017">http://tinyurl.com/ECCWS2017</a> , E-Book ISBN: 978-1-911218-44-9, E-Book ISSN: 2048-8610, Book version ISBN: 978-1-911218-43-2, Book Version ISSN: 2048-8602. 29-30 June 2017, Dublin, Ireland
Conference	Botha J., Hahn J., Grobler M.M., <u>Eloff M.M.</u> , (2017). A High-Level Comparison between the South African Protection of Personal Information Act and International Data Protection Laws, at <i>the 12th International Conference on Cyber Warfare and Security – ICCWS-17</i> , pp 57-66, E-Book ISBN: 978-1-911218-26-5, E-Book ISSN: 2048-9889, Book version ISBN: 978-1-911218-25-8, Book Version ISSN: 2048-9870, Dayton, Ohio, USA, 2-3 March 2017
Conference	Chaipa S., <u>Eloff M.M.</u> , (2017). Towards the development of an effective intrusion detection model, at 16th International Information Security South Africa (ISSA) Conference, ISBN 978-1-5386-0544-8, pp 32-39, 16 - 17 August 2017, Johannesburg, South Africa.
Conference	Dlamini M.T., Eloff J.H.P., Venter H.S., <u>Eloff M.M.</u> , Eyono R.H. & Mosola N., (2017). Behavioural Analytics: Beyond Risk-based MFA, <i>Proceedings of Southern Africa Telecommunication Networks and Applications Conference, SATNAC 2017</i> , ISBN 978-0-620-76756-9, pp 312-317, 3 - 10 September 2017 on the Freedom of the Seas Cruise Liner operated by Royal Caribbean International.

Type of Output	Full reference
Conference	<u>Eccles, N.S.</u> (2017).. Overcoming constraints imposed by fiduciary duties in terms of tackling “Leadership challenges that matter”? <i>4th International Conference on Responsible Leadership</i> . 15 – 17 March 2017. The Gordon Institute of Business Science, South Africa. (Subsequently submitted to a special edition of <i>Journal of Business Ethics</i> ).
Conference	<u>Eccles, N.S.</u> , <u>Delport, P.T.</u> & <u>Mataboge, M.</u> (2017). Fiduciary capitalism: Revisiting dialectics. <i>European Business Ethics Network (EBEN) Research Conference</i> . 6 – 8 September, Athens, Greece.
Conference	<u>Mujinga M.</u> , <u>Eloff M.M.</u> & <u>Kroeze J.H.</u> , (2017). A Socio-Technical Approach to Information Security, at <i>23rd Americas Conference on Information Systems (AMCIS 2017)</i> , 10-12 August 2017, Boston, MA.
Poster	Magagula B, Social support as an aid to unemployed graduates, <i>15th European Congress of Psychology</i> , 11 - 14 July 2017, RAI Amsterdam, The Netherlands

## Students graduated

Two (2) PhD's and three (3) Masters' students

<b>Degree</b>	<b>Student name and dissertation / Thesis title</b>	<b>Supervisor</b>
PhD	Dr Olga Laiza Kupika. "Climate Change and Biosphere Reserves: Implications on local livelihoods and wildlife conservation in the Middle Zambezi Biosphere Reserve of Zimbabwe" Chinhoyi University of Technology, Zimbabwe.	G Nhamo
PhD	Dr Bongani Chavalala. "An Assessment of South Africa's Coal Mining Sector Response to Climate Change Adaption Demands" Unisa, South Africa.	G Nhamo
MA	Ms Busi Magagula, "An exploration into the social support experiences of unemployed graduates" Unisa, South Africa. (ICC staff member)	KG Skosana
MSc	Mr Peace Aaron Matangira. "Investigating the Mining Supply Chain's Response to Climate Change: A Case of South Africa's MCCGC" Unisa, South Africa.	G Nhamo
MSc (IS)	Mr Sarathiel Chaipa. "An Investigation into the Measures for Improving the Detection Accuracy of Intrusion Detection Systems" Unisa, South Africa.	MM Eloff
MSc (Computing)	Mr Mfowabo Maphosa. "Exploring Project Management Maturity Models in Information Technology Organisations versus Other Organisations: A South African Viewpoint" Unisa, South Africa.	MM Eloff

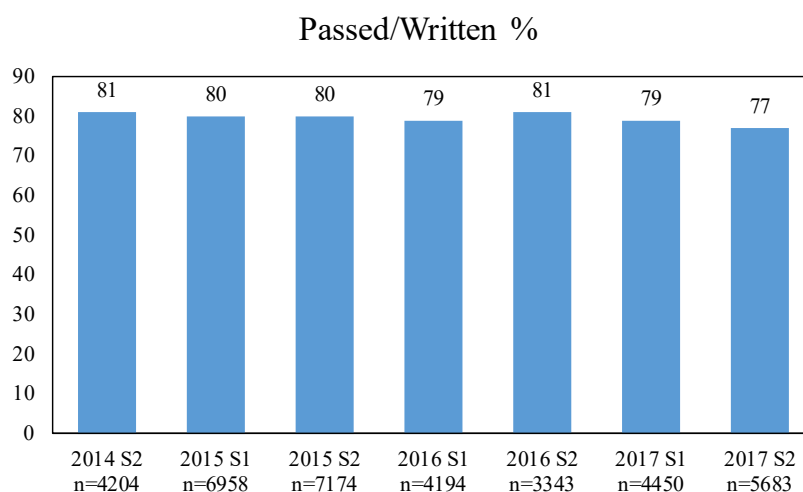
### 3. Tuition – SUS1501

By: Prof Neil Eccles

#### 2017: THE YEAR IN REVIEW

In last year’s annual report, I noted that 2016 had been an unsettled year and I concluded by saying “*In short this was a year that we would really like to not see repeated.*” One is happy to report that 2017 was indeed less turbulent than 2016, although it was not altogether devoid of problems. The biggest one of these was associated with growth in student numbers. In 2016, we entertained a total of 10,441 students. In 2017, this number jumped to 14,713. The result of this unanticipated growth was that we simply did not have enough teaching assistants, particularly in the second semester when we had over 8,000 students registered. The end result was that the primary lecturer and some of the secondary lecturers were roped into teaching assistant roles in addition to their day jobs particularly in the second semester.

This is obviously an unsatisfactory state of affairs. In an attempt to mitigate this, we undertook a teaching assistant recruitment drive towards the end of the year. This was moderately successful and we added eight new TA’s ready for 2018. In terms of pass rates, these remained reasonably constant at around 80%. The slight dip in the second semester might be attributable to the very large student numbers and the resultant overload of staff. However, it is just as likely do to normal variance:



#### 2018 – THE YEAR AHEAD

2018 will be the sixth year that SUS1501 has been running. During the year we will be formally revisiting the module as per the standard review cycle.

## 4. Financial information

**INSTITUTE FOR CORPORATE CITIZENSHIP**  
**STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDING 31/12/ 2017**

ITEM	TOTAL 2017	PRIOR YEAR 2016
<b>INCOME</b>	<b>36,527</b>	<b>45,284</b>
Bad Debts Recovered	0	0
Enrollment fees : Programmes and Courses	0	0
Interest Received	36,527	45,284
<b>EXPENDITURE</b>	<b>27,262</b>	<b>20,495</b>
Depreciation : Furniture and Equipment	0	0
Entertainment Expenditure	4,543	2,419
Membership fees : Professional Associations	2,556	843
Photocopying Costs	7,702	8,311
Postage/Courier Service	0	228
Stationery and Office Requirements	11,928	5,804
Travel and Subsistence : Domestic	533	0
Unisa Shop	0	2,890
<b>Current surplus/deficit for the year</b>	<b>9,265</b>	<b>24,789</b>
Unappropriated surplus 2018-01-01	264,008	239,219
<b>UNAPPROPRIATED SURPLUS</b>	<b>273,273</b>	<b>264,008</b>



**EXXARO CHAIR IN BUSINESS AND CLIMATE CHANGE**  
**STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDING 31/12/2017**

ITEM	TOTAL 2017	PRIOR YEAR 2016
	<b>R</b>	<b>R</b>
<b>INCOME</b>	<b>762,663</b>	<b>399,233</b>
Donations (DEFERRED INCOME)	514,058	
Seminar/Congress fees		
Interest Received	248,605	399,233
<b>EXPENDITURE</b>	<b>2,025,625</b>	<b>926,280</b>
Depreciation : Furniture and Equipment	7,428	2,246
Depreciation : Computer equipment	5,565	4,465
Internal use of university vehicles	6,176	
Meetings/Entertainment Expenditure	17,694	
Training and development	497,572	
Cost of equipment	16,853	83,032
Non Capitalisable Books and Journals	66,875	
Laboratory and research equipment		309,001
Basic research	373,060	
Sundry expenses		2,113
Office consumables: internal		
Stationery and Office Requirements		
Travel and Subsistence : Domestic	165,511	124,025
Travel and Subsistence : Foreign	30,993	640
Salaries	834,477	383,611
UIF	3,421	2,147
Royalties		15,000
<b>Current surplus/deficit for the year</b>	<b>-1,262,962</b>	<b>-527,047</b>
Unappropriated surplus 2018-01-01	5,168,488	5,695,535
<b>UNAPPROPRIATED SURPLUS</b>	<b>3,905,526</b>	<b>5,168,488</b>

**NOAH FINANCIAL INNOVATIONS**  
**STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDING 31/12/2017**

ITEM	TOTAL 2017	PRIOR YEAR 2016
	R	R
<b>INCOME</b>	<b>211,932</b>	<b>195,420</b>
Interest Received	211,932	195,420
<b>EXPENDITURE</b>		0
Advertising costs		
Audit Fees		
SMS Expenses		
Telephone and Telex		
Travel and Subsistence : Domestic		
Travel and Subsistence : Foreign		
<b>Current surplus/deficit for the year</b>	<b>211,932</b>	<b>195,420</b>
Unappropriated surplus 2018-01-01	3,027,601	2,832,181
<b>UNAPPROPRIATED SURPLUS</b>	<b>3,239,533</b>	<b>3,027,601</b>

**EXXARO, ICC & NOAH FINANCIAL INNOVATIONS**  
**COMBINED STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDING 31**  
**DECEMBER 2017**

ITEM	TOTAL 2017	PRIOR YEAR 2016
	<b>R</b>	<b>R</b>
<b>INCOME</b>	<b>1,011,122</b>	<b>639,937</b>
Donations (Deferred income)	514,058	
Seminar/Congress fees		
Interest Received	497,064	639,937
<b>EXPENDITURE</b>	<b>2,052,887</b>	<b>946,775</b>
Internal use of university vehicles	6,176	0
Depreciation - Furniture and Equipment	7,428	2,246
Depreciation - Computer Equipment	5,565	4,465
	0	0
Meetings/Entertainment Expenditure	22,237	2,419
Training and development	497,572	0
Cost of equipment	16,853	83,032
Non Capitalisable Books and Journals	66,875	0
Laboratory and research equipment	0	309,001
Basic research	373,060	0
Photocopying costs	7,702	8,311
Courier and postage services	0	228
Sundry expenses	0	2,113
Membership fees (Professional bodies)	2,556	843
Stationery and Office Requirements	11,928	5,804
Travel and Subsistence : Domestic	166,044	124,025
Travel and Subsistence : Foreign	30,993	640
Salaries	834,477	383,611
UIF	3,421	2,147
Unisa shop	0	2,890
Royalties	0	15,000
<b>Current surplus/deficit for the year</b>	<b>-1,041,765</b>	<b>-306,837</b>
Unappropriated surplus 2018-01-01	8,460,098	8,766,935
<b>UNAPPROPRIATED SURPLUS</b>	<b>7,418,333</b>	<b>8,460,098</b>

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