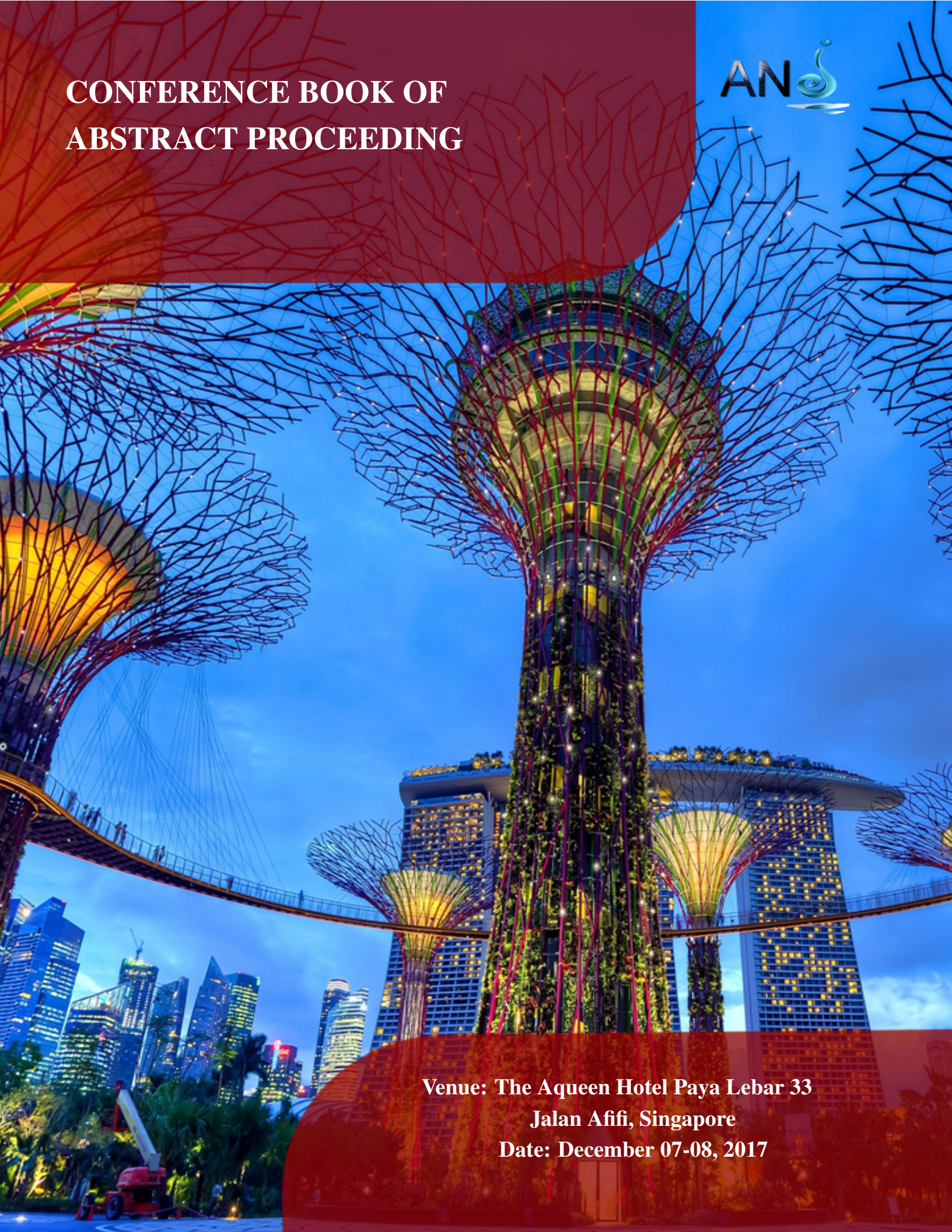


**CONFERENCE BOOK OF  
ABSTRACT PROCEEDING**



**Venue: The Aqueen Hotel Paya Lebar 33  
Jalan Afifi, Singapore  
Date: December 07-08, 2017**



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# Book of Abstracts Proceedings

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## CONFERENCE TRACKS

- Social and Community Studies
- Arts
- Humanities
- Civic and Political Studies
- Cultural & Global Studies
- Environmental Studies
- Organizational Studies
- Educational and Communication Studies
- Economics, Finance & Accounting
- Business and Management Studies
- Computer and Software Engineering
- Mechanical & Metallurgical Engineering
- Electrical & Electronics Engineering
- Civil Engineering
- Bio-Technology & Food Technology
- Chemistry & Chemical Engineering
- Physical, Applied and Life Sciences
- Interdisciplinary





## CONFERENCE CHAIR MESSAGE

**Dr. Vincent**

“International Conference of Akademika Nusa Internasional ” is a platform that thrives to support the worldwide scholarly community to analyze the role played by the multidisciplinary innovations for the betterment of human societies. It also encourages academicians, practitioners, scientists, and scholars from various disciplines to come together and share their ideas about how they can make all the disciplines interact in an innovative way and to sort out the way to minimize the effect of challenges faced by the society. All the research work presented in this conference is truly exceptional, promising, and effective. These researches are designed to target the challenges that are faced by various sub-domains of the social sciences, business and economics, applied sciences, engineering and technology, health and medical sciences.

I would like to thank our honorable scientific and review committee for giving their precious time to the review process covering the papers presented in this conference. I am also highly obliged to the participants for being a part of our efforts to promote knowledge sharing and learning. We as scholars make an integral part of the leading educated class of the society that is responsible for benefitting the society with their knowledge. Let’s get over all sorts of discrimination and take a look at the wider picture. Let’s work together for the welfare of humanity for making the world a harmonious place to live and making it flourish in every aspect. Stay blessed.

Thank you.

Dr. Vincent

Conference Chair

Email: [Conferencechair.ani@gmail.com](mailto:Conferencechair.ani@gmail.com)



## CONFERENCE SECHDULE

ANISSH-ANICEAS-2017

Venue: The Aqueen Hotel Paya Lebar 33 Jalan Afifi, Singapore 409180

Time: Registration & Kit Distribution (09:00 - 09:30 am)

Day: Thursday

Date: December 07, 2017

Venue: Room 1

09:30 am - 09:40 am	Introduction of Participants
09:40 am - 09:50 am	Inauguration and Opening address
09:50 am - 10:00 am	Grand Networking Session

Tea/Coffee Break (10:00 - 10:30 am)



**DAY 01 Thursday (December 07, 2017)**

**First Presentation Session (10:30 am - 12:30 pm)**

**Venue: Room 1**

**Session Chair: Dr. Vincent**

**Track A: Business Management, Social Sciences & Humanities**

<b>Presenter Name</b>	<b>Manuscript Title</b>	<b>Paper ID</b>
Felix W.H. Chan	Personal Injury Compensation in Hong Kong: Capturing the Evidence of Research Impact	SGS-2127-101
Dr. Chiajung Lin	Acceptance of Using Social Media on Training	SGS-2127-102
Yoshinori Shibata	Rating Agreement as A Moderator of the Relationship between Prosocial Motivation and Turnover Intention in Long-Term Elderly Care	SG-127-105
Hugo Toledo	Income Redistribution from a Proposed UAE-South Korea Free Trade Agreement	SG-127-109
Kien T. Le	Measuring the Impact of Non-Farm Activities on Rural Household Welfare	SG-127-111
Adita Pritasari	The Role of Digital Technology in Happiness among Lecturers	CESM-103
Gregory Alexander	What do learners Think of the Organisational Culture of Historically White Multicultural Schools in South Africa?	RDSSB-127-ANI101
Sheila Nokuthula matoti	Pre-Service Teachers Perceptions about their Preparedness for the Teaching Profession	RDSSB-127-ANI102

**Lunch Brake (12:30 pm - 1:30 pm)**



**DAY 01 Thursday (December 07, 2017)**

**Second Presentation Session (01:30 pm - 03:30 pm)**

**Venue: Room 1**

**Session Chair: Dr. Vincent**

**Track A: Business Management, Social Sciences & Humanities**

<b>Presenter Name</b>	<b>Manuscript Title</b>	<b>Paper ID</b>
Dr. Patricia Lulama Ndamani	Pre-Service Teachers Reflections on Mentor Support during Teaching Practice and Lessons for Teacher Educators	RDSSB-127-ANI103
Wendy Setlaletoa	Reflections and Lessons Learnt By Biology Pre-Service Teachers from Using the Lesson Study Approach For Micro-Teaching	RDSSB-127-ANI105
Mr Itumeleng Morolong	A Conceptual Framework Towards Understanding the Factors Influencing Academic Performance of First-Time Entering Students (FETs) at a University of Technology	RDSSB-127-ANI106
Prof Alfred H. Makura	Practices and Challenges in Managing Curriculum Implementation by Female School Heads in South Africa and Zimbabwe	RDSSB-127-ANI108

**Track B: Computer, Engineering Technology, & Applied Sciences**

Sahar A. A. Malik Al-saad	Variations in Essential Oil Contents and Composition in Achillea Fragrantissima (Forssk) Sch. Leaves in Iraq	RDCASE-127-CEAS102
Mrs. Astri Nur Istyami	The Use of Hydrophobic Beads in Triglyceride Hydrolysis	RDCASE-127-CEAS104

**Tea & Ending Note (03:30 pm - 3:45 pm)**



## Participants Registered As Listener/ Observer

The following Scholars/ practitioners who don't have any paper presentation, however they will attending the conference as delegates & observers.

**Official ID:** RDCASE-127-CEAS102C

Karzan Omer Qader  
University of Sulymani, Iraq

**Official ID:** SG-127-105A

Yasuhiko Haraguchi  
Hiroshima University



## **Conference Day 02 (December 08, 2017)**

Second day of conference will be specified for touristy. Relevant expenses are borne by Individual him/herself.

***TRACK A***

***BUSINESS MANAGEMENT, SOCIAL SCIENCES & HUMANTIES***



# Acceptance of Using Social Media on Training

\*Dr. Chiajung Lin  
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**Keywords:** Training, Social Media, Learning, Intention to use

Using social media has become a daily task for many people in this day and age. If people spend so much of their time on social media sites, can the sites be used productively and for work purposes? The benefits of using social media as a training medium and the effects of social media on development as well as career implications will be explored. Preliminary results were collected from a group of students regarding their perceptions of using social media on training and intention to use at work. Suggestions for designing training program via social media are discussed.

# Rating Agreement as a Moderator of the Relationship between Prosocial Motivation and Turnover Intention in Long-Term Elderly Care

<sup>1\*</sup>Yoshinori Shibata,<sup>2</sup>Yasuhiko Haraguchi

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**Keywords:** Rating Agreement, Prosocial Motivation, Turnover Intention in Long-Term Elderly Care

The present study investigates the relationship between prosocial motivation and turnover intention in long-term elderly care sector. Based on a relational job design and self-other agreement framework, this study proposes a model of the process through which care staff prosocial motivation affects voluntary turnover intention differently depending on rating agreement of work performance between care staff and their supervisors. The proposed moderation model was tested with a sample of 382 care staff and their supervisors of geographically diverse elderly care facilities of an care organization located in Japan. The results show that when rating agreement was high, there is a strong, negative relationship between prosocial motivation and turnover intention. When agreement was low, this relationship weakens. The theoretical and practical implications are discussed.

# Income Redistribution from a Proposed UAE-South Korea Free Trade Agreement

\* Hugo Toledo

American University of Sharjah, UAE

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**Keywords:** Uae, South Korea, Free Trade, Income Redistribution.

The growing commercial relationship between the UAE and South Korea is evident. Non-oil trade between the UAE and South Korea has grown significantly over the last decade reaching USD 22 billion in 2011, up by almost 16% relative to USD 19 billion in 2010. UAE exports to South Korea topped USD 14.8 billion in 2011 representing a 21.3 percent increase relative to the previous year. UAE imports from South Korea reached USD 7.3 billion over the same period. Currently, there are 300 South Korean companies registered in the UAE operating in different economic sectors such as financial services, healthcare, green technologies, transport, tourism, and real estate. Construction contracts won by South Korean companies in the UAE totaled USD 25.6 billion in 2012, making the UAE the most attractive nation for South Korean construction companies. Given this growing commercial relationship, a Free Trade Agreement (FTA) between the two countries could benefit the 2.2 billion consumers in the Middle East and North Africa (MENA) and South Asian regions. The problem, however, is that while free trade benefits society broadly, losses are concentrated. The link between international trade, output prices and income redistribution has been based on the well-known Heckscher-Ohlin (H-O) model of trade. The relationship between trade and wages is embodied in the Stolper-Samuelson (1941) Theorem and its generalizations that trade-induced output price changes have a magnification effect of factor prices and wages. Abundant factors gain while scarce factors lose from more free trade.



# Measuring the Impact of Non-Farm Activities on Rural Household Welfare

\*Kien T. Le

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Corresponding Email:kienle@qu.edu.qa

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**Keywords:** Agricultural Households, Non-Farm Income, Farmers, Rural Vietnam

The rural non-farm sector has grown rapidly and became an important source of income for rural households in developing countries. Various studies have attempted to measure the impact of this sector on household welfare (e.g., household income, poverty and inequality). Unlike previous studies which estimate the household income function to measure the impact, we start by estimating the projection function for farm income and then use this function in a simulation to measure the impact. When applied to a sample of Vietnamese farmers, we find that households anywhere along the income distribution benefit from non-farm activities but lower income households benefit more than upper income households, suggesting a pro-poor and pro-equality feature of non-farm activities in Vietnam.

# The Role of Digital Technology in Happiness among Lecturers

<sup>1\*</sup> Adita Pritasari, <sup>2</sup> Yuni Ros Bangun, <sup>3</sup> Henndy Ginting, <sup>4</sup> Anggara Wisesa

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**Keywords:** Digital Technology, Happiness, LTB, Lecturer, Well-Being

The innovation and development of digital technology have changed our lives in many aspects. As university lecturers, the exposure of digital technology is unavoidably increasing from time to time. This condition especially relevant for the lecturers of Bandung Institute of Technology (Institut Teknologi Bandung [ITB]), which is well-known as the top leading university/institute in the technology field in Indonesia. Community well-being is included in ITBs vision and mission as well as in its grand development plan. According to Seligman (2011), well-being is associated with happiness which is related to pleasant, harmony, and meaningful life. Normally, employees would stay in their job and workplace if they feel happy (Maertz & Griffeth, 2004). In doing their job, lecturers nowadays should adapt with the development of digital technology, which could be the source as well as obstruction of happiness (Kavetsos & Koutroumpis, 2011; Penard & Poussing, 2011). The digital technology facilities help lecturers doing their job but those also might lead to an addiction and distract interpersonal relationship as well as personal well-being, such as experiencing negative emotions. Moreover, a study at Illinois University found out that long-term using of digital technology associated with negative impacts to mental health, such as depression and anxiety (Panova & Lieras, 2016). The previous finding in the qualitative research was about the determinant factors of happiness among lecturers in ITB, which are related to interpersonal and intrapersonal factors, including the positive and negative effect of digital technology. The results indicate a high level of happiness among lectures; they perceived ITB as their source of happiness especially in providing freedom and opportunity to share knowledge and values. In this research, the researchers aim to explore more about the role of digital technology towards happiness among lecturers. A quantitative method was conducted to confirm those factors. As for the implication, this research is expected to give insights for the organization to create a strategic human capital development plan in order to maintain the happiness level of its members.

# What do learners think of the Organisational Culture of Historically White Multicultural Schools in South Africa?

<sup>1\*</sup> Gregory Alexander, <sup>2</sup> Anthony Mpsi

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**Keywords:** Learner perceptions, Organisational/School culture, Multicultural schools

The current South African context is characterised by multicultural school settings which are characterised by an increased admission of learners reflecting differences in language, culture, traditions, religion, home environments and socio-economic backgrounds. A recognition of diversity by teachers and school management teams therefore becomes critical in understanding learners backgrounds, experiences and worldviews and how these aspects subsequently affect the ultimate organisational /school culture (beliefs, values, attitudes, expected behaviours, symbols, policies and practices). Various scholars further argue that organisational/school culture should promote collaborative decision making, professional development and improvement in staff and student learning. With the latter said in mind, this paper explores learners perceptions on aspects relating to organisational/school culture. Via a quantitative research approach, a survey was used to ascertain the perceptions of 832 learners on aspects of school culture. Key findings revealed that most learners agree that norms and values in schools code of conduct are aimed at creating a democratic education system whilst the majority disagree with the statement that schools have structures in place to reduce prejudice and stereotyping. This study therefore recommends that Education authorities and school management teams should initiative progressive interventions and support programmes in collaboration with teachers, learners and the wider school community, as a means of promoting organisational/school cultures that are characterised by imperatives of equal opportunities, quality education and social justice.

# Pre-service teachers perceptions about their preparedness for the Teaching Profession

\* Matoti Sheila Nokuthula

\* Central University of Technology, South Africa

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**Keywords:** Preservice Teachers, Preparedness, Skills, Content Knowledge, Pedagogical Content Knowledge

This study assessed the level of preparedness of fourth-year pre-service teachers for the teaching profession. The sample comprised 91 students (31 males and 60 females) from five undergraduate education programmes at an Institution of higher learning in South Africa. A questionnaire was used as the main data gathering instrument. Follow-up interviews were also conducted. The preparedness of students to teach was assessed in different aspects of their preparation including general skills such as communication and interpersonal skills, skills related to major subjects, subject methodologies, micro-teaching, and school-based learning. Both quantitative and qualitative data analysis procedures were followed to generate data. On the whole the findings of the study indicated that the students were positive about their preparedness and readiness to teach in the following year. They felt that the six months duration of teaching practice had helped them to adjust to the demands of the real classroom environment. They, however, identified some additional skills that they would like the institution to equip them with. Whilst they were confident about the content they gained from their major subjects, some shortcomings, especially, in the teaching of subject methodologies were identified. Some recommendations to ease their transition from the institution to the schools have been advanced. The study further recommended that the students be followed to the schools next year to see the challenges they experience as newly qualified teachers.

# Pre-service Teachers Reflections on mentor support during Teaching Practice and lessons for Teacher Educators

\* Ndamani, Lulama

\* Central University of Technology, South Africa

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**Keywords:** Reflection, Pre-Service Teachers, Experiences

Mentoring is a very important aspect of teacher training. This study which is exploratory and descriptive in nature examined pre-service teachers experiences of their interactions with school mentors. The sample consisted of 51 participants, 26 (51%) female students and 25 (41%) male students at a University of Technology in South Africa. A questionnaire was used to collect data from the participants. The questionnaire was distributed in class to ensure that all students had an opportunity to participate although their participation was voluntary. The questionnaire was divided into three sections; Section A: Biographical Data, Section B: 20 items that requested students to indicate through a 5 point Likert-scale on how they best felt about their mentors and Section C: additional or other information that students wanted to share with the researcher. The data on student feelings about their mentors were analysed using both Microsoft Excel and Graph Pad. Descriptive statistics were used to analyse and present the data. The findings suggest the majority of the students would like to receive regular mentoring. They however reported that they had positive experiences which included motivation, support and acceptance. Negative experiences were also reported. Some recommendations have been made on how to strengthen and sustain the positive experiences and eliminate the negative experiences.



# Reflections and Lessons Learnt By Biology Pre-Service Teachers from Using the Lesson Study Approach For Micro-Teaching

\* Wendy Setlalentoa

\* Central University of Technology, South Africa

Corresponding Email:wsetlale@cut.ac.za

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**Keywords:** Reflective Practice, Micro-Teaching

The teacher education preparation programs deal with the challenge of helping new teachers translate what they have learned in their teacher preparation program into practice. This study is about reflections of Biology pre-service teachers after using the lesson study approach in planning for micro-teaching. The use of microteaching is a conventional practice in pre-service teacher education to develop novice teachers in their teaching skills before they encounter challenging and complex teaching situations in real classrooms. Lesson Study (or jugyou kenkyuu in Japan), a classroom-based professional development model where teachers learn together to meet their students learning needs, a mechanism that helps Japanese teachers to improve their practice based on evidence from the classroom. Underpinning this study is Dewey's idea of reflection and Vygotsky's view that more knowledgeable members of the society guide social interactions and provide gradual construction of knowledge by the less knowledgeable members of the community. Participants in this study comprised twenty six third year pre-service teachers enrolled for Biology major, the lecturer and the laboratory technician. Student teachers involved in this study have teaching experience acquired during teaching practice. Through data analysis generated by the qualitative method wherein focus group discussions were made, pre-service teachers were able to reflect, amongst others, on the content they taught, teaching methods, and to improve on their practice. The reflection upon their learning showed evidence of willingness to incorporate the learnt ideas of good teaching in their future classrooms teaching. The use of micro-teaching and reflection allowed them to restructure their pedagogical knowledge through identification, comparison, modification and synthesising.

# A Conceptual Framework Towards Understanding the Factors Influencing Academic Performance of First-Time Entering Students (FETs) at a University of Technology

<sup>1\*</sup> Mr Itumeleng Morolong, <sup>2</sup> Prof Wendy N. Setlالتها

<sup>1\*,2</sup> Central University of Technology, South Africa,

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**Keywords:** Attrition, first year students or first time entering students (FTEs), university environment as experienced by FTEs

The Central University of Technology (CUT) like other institutions of higher learning has been experiencing a poor performance by First-Time Entering students (FETs) as well as a significant attrition rate particularly in the Somatology and Human Resource Management programmes. Literature suggests that the university environments and related factors can be attributed to that. This study investigated how First-Time Entering students (FETs) perceive the university environment with reference to their interactions with CUT staff and as well as their choice of programmes of study. Participants of this study were a convenient sample comprising 20 students enrolled in first year Somatology and Human Resource Management programmes. Through data analysis generated by the quantitative method wherein 40 questionnaires were distributed and collected, the study presents a conceptual framework for exploring personal, biographical and institutional issues impacting on poor performance and attrition amongst FETs. Through this framework, new insights are illuminated. It is hoped that this study will shed light on the calibre of the FTEs at CUT, thus putting the university in a better position to assist the FTEs to adjust to university life and thus succeed academically.

# **A Conceptual Framework Towards Understanding the Factors Influencing Academic Performance of First-Time Entering Students (FETs) at a University of Technology**

\* Alfred H. Makura

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**Keywords:** Female School Heads, Curriculum, Challenges, Management, South Africa, Zimbabwe

This comparative study investigated curriculum management and implementation practices and the challenges being faced by some female primary school heads in South Africa and Zimbabwe. The study attempted to establish the extent to which subordinate teachers and the female heads themselves perceived issues and challenges in managing curriculum implementation in school heads quest to improve learning. The research adopted a quantitative research design, where descriptive survey was employed. A randomly selected sample of ten female school heads and forty teachers from both countries was used. Two self constructed questionnaires were used to collect data. The research results showed that, though female primary school heads perceive themselves as effective and confident in managing curriculum implementation, teachers perceive them as weak in managing curriculum implementation. Good management practices were as perceived as impacting positively on learning. Their major challenges women school leaders face are cross-national and emanate from lack of resources, cooperation, support from teachers and the community. Despite these challenges, female leaders were found to be resourceful in improving learning and their schools. Very few workshops in service programmes have not be initiated to enrich female heads on the areas they are perceived to be weak, especially curriculum evaluation. The paper calls for more interactive meetings between and among teachers, the department of education and female school leaders to improve decision making and curriculum management and implementation in respective schools.

***TRACK B***

***COMPUTER, ENGINEERING TECHNOLOGY, & APPLIED SCIENCES***



## Variations in essential oil contents and composition in *Achillea fragrantissima* (Forssk) Sch. leaves in Iraq

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**Keywords:** *Achillea fragrantissima*, essential oils, Camphor, GC-MS.

Essential oil of *Achillea fragrantissima* extracts were prepared and analyzed by gas chromatography-mass spectrometry (GC-MS). A total of 57 phytochemical constituents of chemical compounds were identified in leaves of *Achillea fragrantissima*. The components were mainly 4 sesquiterpenes (7.01%), 35 monoterpenes (61.40 %). The major constituents of the essential oil were camphor (34.50 %), 1,8-cineole (14.60 %), artemesia ketone (10.25%) and 3-thujanone (7.82%). In addition, 44 components were present at less than 1%.



# The Use of Hydrophobic Beads in Triglyceride Hydrolysis

<sup>1\*</sup> Astri Nur Istyami, <sup>2</sup> Made Tri Ari Penia Kresnowati, <sup>3</sup> Tirta Prakoso, <sup>4</sup> Tatang Hernas Soerawidjaja

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**Keywords:** Fatty acid, Triglyceride hydrolysis, Hydrophobic beads, Polypropylene, Polyethylene, Polystyrene

Fatty acid is an important intermediate substance in oleochemical industry. The demand of fatty acid is predicted to increase significantly in the future due to the development of biofuel technology through decarboxylation of fatty acids. For decades, fatty acid is commercially produced via thermal hydrolysis of triglyceride. Technology of fatty acid production in mild temperature and low energy consumption is currently developing through enzymatic triglyceride hydrolysis. The aim of this research is to investigate the effect of hydrophobic beads in hydrolysis of triglyceride. From the experimental data, higher conversion of triglyceride hydrolysis was attained with the use of several hydrophobic beads: polypropylene, polyethylene, and polystyrene. This phenomenon was not shown in utilization of hydrophilic materials, such as silica gel, silica stone, and rice bran acetone powder. It is hypothesized that the higher hydrolysis conversion is caused by mass transfer facilitated by hydrophobic beads, while in hydrophilic materials, water substrate was adsorbed and lower the hydrolysis conversion. Experimental data also shows that this phenomenon depends on reaction pH. Utilization of hydrophobic beads will be an advantage in triglyceride hydrolysis in room temperature, especially when hydrophobic supported enzyme is used.

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