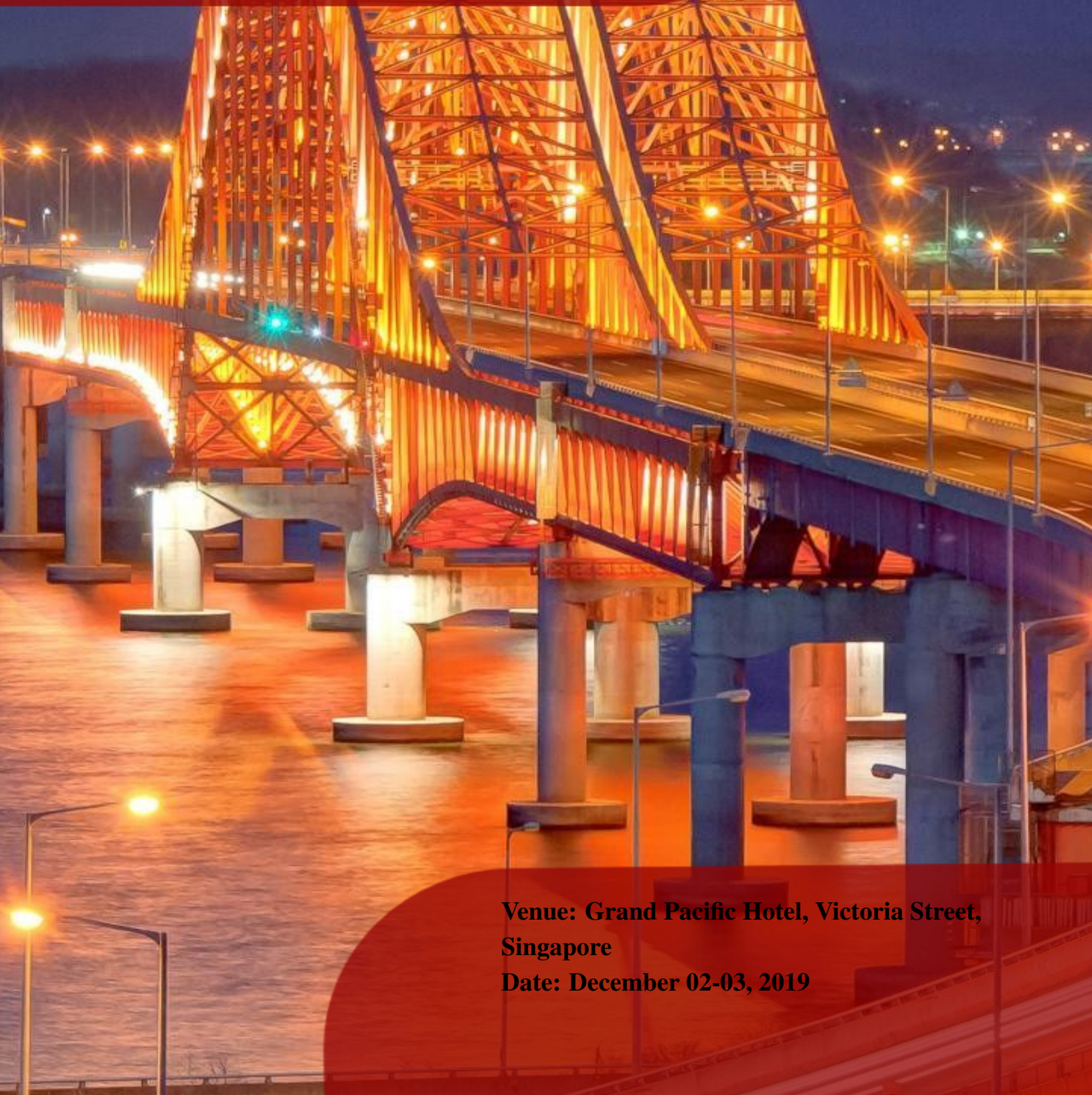


CONFERENCE BOOK OF ABSTRACT PROCEEDING



**Venue: Grand Pacific Hotel, Victoria Street,
Singapore**

Date: December 02-03, 2019

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Book of Abstracts Proceedings

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Conference Supervisor



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
- Medical and Health Sciences
- Paramedical Sciences
- Medicine Sciences
- Biological and Life sciences
- Veterinary Medicine and Sciences
- Food Science & Nutrition
- Agricultural sciences
- Interdisciplinary



CONFERENCE CHAIR MESSAGE

Dr. Vincent W Ho

“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 W Ho

Conference Chair

Email: info@anissh.com



CONFERENCE SCHEDULE

ANISSH-2019

Venue: Grand Pacific Hotel, Victoria Street, Singapore

Time: Registration & Kit Distribution (09:00 - 09:10 am)

Day: Monday

Date: December 02, 2019

Venue: Room 1

09:10 am - 09:20 am	Introduction of Participants
09:20 am - 09:30 am	Inauguration and Opening address
09:30 am - 09:40 am	Grand Networking Session

Tea/Coffee Break (09:40 am - 10:00 am)



DAY 01 (December 02, 2019)

Presentation Session (10:00 am - 12:00 pm)

Venue: Room 1

Session Chair: Dr. Vincent

Track A: Business, Social Sciences and Humanities

Paper ID	Manuscript Title	Presenter Name
BMESHBMC-DEC-007 & SHBMC-DEC-007C	Inclusion and Wellbeing in Teacher Education: Focus on Gender and Sexual Diversity	Dr. Wendy Carr & Dr. Blye Frank
SHBMC-DEC-012	Teaching Thai EFL Learners to Detect Definite and Indefinite Contexts at the First Stage of English Article Acquisition	Soisithorn Isarankura
BEASM-129-ANI102	A Burnout Analysis of the Relationships Between Hamburg Burnout inventory Scales And Heart Rate Variability Measurements to Determine Burnout Hazard and Burnout Risk	Petra Heidler

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

PAET-DEC19-001	Heat Transfer Enhancement in a Micro-channel Cooling System using Guiding Vane	Adel E. Alshayji
RETI-DEC19-CEAS102	The antipollutant mechanism of compound PTS from blueberry in particulate matter-induced Ha-CaT keratinocytes	Feng-Lin Yen

Track C: Medical, Medicine & Health Sciences

SIN-1129-101M	Prevalence of Bipolar Disorder, its Socio-Demographic Correlates in the Adult Population of Hebei Province, China: A Population-Based Survey	Wenwang Rao
SIN-1129-102M	The Prevalence of Sexual Harassment toward Psychiatric Nurses and its Demographic Correlates in China	Liangnan Zeng

Lunch & Closing Ceremony (12:00 pm - 01:00 pm)



Conference Day 02 (December 03, 2019)

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



TRACK A

BUSINESS, ECONOMICS, SOCIAL SCIENCES & HUMANITIES



Inclusion and Wellbeing in Teacher Education: Focus on Gender and Sexual Diversity

^{1*}Dr. Wendy Carr, ²Dr. Blye Frank

^{1,2}Faculty of Education, University of British Columbia, Vancouver

Corresponding Email: wendy.carr@ubc.ca

Keywords: Inclusive Education, Gender Diversity, Sexual Diversity, Teacher Education

Faculties of education prepare educators for practice in highly diverse contexts, and the curricula, discourses and cultures they create have profound effects upon youth; in particular those whose sexual orientation or gender identity (SOGI) do not fit neatly within the gender binaries and assumptions that pervade school systems. Schmidt, Chang, Carolan-Silva, et al. (2012) refer to new literacies needed to support LGBTQ2+ students as a different language and a different way of talking about and deconstructing experience. From 2016 to present, the UBC Faculty of Education has engaged in a process of reflection and analysis about how it includes or marginalizes gender and sexually diverse people. SOGI-inclusion involves enhancing knowledge and understanding, reducing stigma and shifting language and attitudes, and the approach we've taken is to identify SOGI-inclusion as a professional competency necessary for educators in today's schools. This is both timely and pertinent as recent studies (e.g., Taylor et al. (2015)) indicate that a majority of practicing teachers do not feel equipped to teach inclusively with respect to gender and sexual diversity. An overview of this approach, along with findings from a curriculum mapping exercise and student-teacher surveys, will be presented by the project lead and Dean of the Faculty. Our goal is to prepare knowledgeable, inclusive educators and improve the experience of those who may be marginalized because of their sexual orientation or gender identity. We hope that the work at UBC can inspire and also be informed by what is happening on other campuses around the world.



A Burnout Analysis of the Relationships Between Hamburg Burnout Inventory Scales and Heart rate Variability Measurements to Determine Burnout Hazard and Burnout Risk

*Petra Heidler

St. Elisabeth University, Austria

Corresponding Email: petra.heidler@fh-krems.ac.at

Keywords: Burnout, Stress, Hamburger Burnout-Inventory, Exhaustion, Employment, Work

Burnout-A myth, a fad, an excuse or disease? These terms are used differently, and the clear definition of this syndrome has been absent for years. The study of the disease has remained inconclusive, since the inclusion as a classic disease in the International Statistical Classification of Diseases and Related Health Problems, abbreviated ICD-10-GM version 2019, is missing and burnout is still only known as a syndrome. However, a diagnosis is indispensable for appropriate therapy and the negative impact influences patients, its social environment, physicians as well as the entire health care sector. The purpose of this paper is to use a mixed method to determine burnout risk. Design/methodology/approach - The recent research focuses on the connection between psyche and physis. 150 people working in public enterprise have been interviewed throughout Austria. The survey was conducted anonymously in a work context under the supervision and guidance of occupational physicians and psychologists. It included a combination method including a questionnaire of the Hamburg burnout inventory and heart rate variability measurements with subsequent analysis of biopsychological markers. The results show overwork and exhaustion, inability to relax and an aggressive reaction as a result of work. Body, mind and soul form a unity. Individuals who show an increased risk of burnout in the heart rate variability measurement and have an equally conspicuous Hamburg burnout inventory result. A combined evaluation method will give a better understanding of the patients health status and can be used in therapy.

Teaching Thai EFL Learners to Detect Definite and Indefinite Contexts at the First Stage of English Article Ac

*Soisithorn Isarankura

Southeast Asia University, Thailand

Corresponding Email: soisithorn55@gmail.com

Keywords: Definiteness, Specificity, Genericity, Countability, Hearers Knowledge

This article reports a small-scale pilot study investigating the Thai students ability to detect definite and indefinite noun phrase (NP) contexts. The participants included 25 Thai undergraduate students studying in the Business English major in a private Thai university. A pre-test and post-test were given before and after the article instruction focusing on detecting definiteness of English NP contexts. The results reveal that prior to the article instruction, the students correctly used the, a/an and at 63.43%, 54.67%, and 20.80% respectively. The results also show that the was overused in contexts that called for a/an and at 35.33% and 37.60%, respectively. Following the one-hour article instruction, the post-test was administered. It was found that the students were able to detect the definite contexts in the test correctly at 78.86% and they used the correctly at 16% higher than they did before the instruction (i.e. 79.43% \hat{c} 63.43%). The improvement in using the was statistically significant. The findings suggest that the binary feature [HK] introduced in the lesson helped the students to better understand the notion of definiteness. Since the correct use of the requires only the proper detection of definiteness, whereas usage of a/an and requires detection of noun countability and number, which tend to be features that constitute greater obstacles in correctly using articles, the teacher should proceed from the most unmarked article in the first stage of article instruction.

TRACK B
ENGINEERING & TECHNOLOGY, COMPUTER, BASIC & APPLIED
SCIENCES



The Antipollutant Mechanism of Compound PTS from Blueberry in Particulate Matter-Induced HaCaT Keratinocytes

^{1*}Feng-Lin Yen, ²Stephen Chu-Sung Hu, ³Chih-Hua Tseng
^{1,2,3}Kaohsiung Medical University, Taiwan
Corresponding Email: flyen@kmu.edu.tw

Keywords: Particulate Matters (PM), Compound PTS, Keratinocytes, Aging, Cosmetic

Particulate matters (PM) are one of the real-time air quality index for monitoring the order of severity of a city. PM also can cause several diseases development, including cardiovascular system, respiratory system, neurological system, and cancer and skin diseases. Skin is the first line of defense of human body's largest immune organ and long-term exposure with PM induced several chronic skin diseases, such as atopic dermatitis, aging, psoriasis and androgen alopecia. Therefore, topical antioxidant administrations help to prevent PM-induced skin disease, such as antioxidants. Compound PTS is a major active component and index compound present in blueberry, almond, peanut, and *Pterocarpus indicus*. Previous studies have demonstrated that PTS possessed many pharmacological activities, including anticancer, photoprotective, antioxidant, anti-inflammation, and antibacteria. However, the molecular biological mechanisms of PTS on PM-induced HaCaT keratinocytes injuries have not been investigated yet. Our results demonstrated that PTS treatment can inhibit the aging expression in keratinocytes, including decreased reactive oxygen species production, inhibited MMP-9 protein expression and increased filaggrin protein expression. In addition, PTS can also inhibit the protein expression of 5-reductase and COX-2 in PM-induced keratinocytes. In conclusion, we suggested that PTS could be used as an additive in pharmaceutical and cosmetic for preventing air pollutant induced skin injury but the clinical study also should be performed in the further study.

Heat Transfer Enhancement in a Micro-channel Cooling System using Guiding Vane

*Adel E. Alshayji

Mechanical Engineering Department, Collage of Engineering and Petroleum, Kuwait University, Kuwait
Corresponding Email: a.alshayji@ku.edu.kw

Keywords: Heat Transfer, Micro-channel Flow, Internal Guiding Vane

This work focus on enhancing heat transfer in micro-channel by introducing guiding vane with fix angle in the flow direction. This study focused on the effect of vane angle and flow speed on cooling effect for cavities inside micro-channel. The micro-channel has internal groves as shown to increase the surface area and therefore enhance the heat transfer. The simulated channel has a height of 100 μ m and a length of 500 μ m. Increasing vane angle and flow speed will help in reducing hot temperature accumulation inside the micro-channel cavities. For moderate flow speed correspond to $Re = 500$, and vane angle = 45° we can reach significant reduction cavities temperature inside the channel without huge drop in pressure across the channel.



TRACK C
MEDICAL, MEDICINE & HEALTH SCIENCES



Prevalence of Bipolar Disorder, its Socio-Demographic Correlates in the Adult Population of Hebei Province, China: A Population-Based Survey

^{1*}Wenwang Rao, ²Yun-Shu Zhang, ³Qing Li, MD
^{1,3} University of Macau, China

² Hebei Psychiatric Hospital, Hebei province, China

Corresponding Email: raoww14@gmail.com

Keywords: Prevalence, Epidemiology, Bipolar Disorder, China

Few studies have estimated the prevalence and correlates of bipolar disorder (BP) in agricultural areas of China. This study examined the one-month and lifetime prevalence of BP, its subtypes and socio-demographic factors in the adult population of Hebei province, a predominantly agricultural area of China. Methods: A multistage, stratified, cluster random sampling method was used to estimate the prevalence and correlates of BP in adults in Hebei province, China. The expanded version of the 12-item General Health Questionnaire (GHQ-12) and the Structured Clinical Interview for DSM-IV Axis I Disorders-Patient Edition (SCID-I/P/C) were administered to establish the diagnosis of BP. Results: A total of 20,884 participants were screened. The weighted lifetime prevalence of BP type I (BP-I), type II (BP-II), and BP not otherwise specified (BP-NOS) were 0.20% (95% CI: 0.14-0.26%), 0.13% (95% CI: 0.08-0.18%), 0.03% (95% CI: 0.009-0.06%) and 0.03% (95% CI: 0.009-0.06%), respectively. The weighted one-month prevalence estimates were 0.12% (95% CI: 0.08-0.17%) for BP, 0.07% (95% CI: 0.04-0.11%) for BP-I, 0.03% (95% CI: 0.006-0.05%) for BP-II, and 0.02% (95% CI: 0.003-0.04%) for BP-NOS. Multiple Poisson regression analysis revealed that positive family history of any psychiatric disorder ($P_1=0.001$, OR=6.48, 95% CI: 2.53-16.56) was significantly associated with greater risk of BP.

The Prevalence of Sexual Harassment toward Psychiatric Nurses and its Demographic Correlates in China

^{1*}Liangnan Zeng, ²Yu-Tao Xiang

^{1,2} University of Macau, China

Corresponding Email: 15228289304@163.com

Keywords: China, Sexual Harassment, Psychiatric Nurses

Objective: This study aimed to examine the prevalence of sexual harassment (SH) towards Chinese psychiatric nurses and its demographic correlates. A total of 2,124 psychiatric nurses were consecutively recruited from 10 psychiatric hospitals distributed across 10 provinces of China; of them, 1,449 were included for analyses. Participants socio-demographic characteristics, experiences of workplace SH in the past year, and quality of life (QOL) were recorded. Overall, 21.5% (n=311) of participants reported SH, with 8.4% (n=121) reporting once, 7.1% (n=103) reporting twice and 6.0% (n=87) reporting three times or more. Psychiatric nurses who experienced SH had lower QOL in physical ($F(1, 1,448) = 33.05, P < 0.001$), psychological ($F(1, 1,448) = 18.35, P < 0.001$), social ($F(1, 1,448) = 8.60, P = 0.003$), and environmental ($F(1, 1,448) = 11.71, P = 0.001$) domains. Multiple logistic regression analysis found that nurses with shorter clinical experience were more likely to experience SH ($P < 0.05, OR = 0.95, 95\% CI: 0.92-0.99$). **Conclusions:** Workplace SH towards psychiatric nurses is common in mental health treatment settings in China. Considering its deleterious impact on nurses wellbeing and care quality, effective staff training on the management of SH and a zero tolerance policy against SH should be developed for this population.

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