

# PROCEEDING BOOK



**Volume 1, Issue 3**

**SIASE-MAY-2019**

**Venue: Mercure Hotel Amsterdam City**

**Date: May 25-26, 2019**



**Institute of  
Applied Sciences  
& Engineering Technology**

# **IAET International Conference on Space Environmental, Information Technology, Applied Sciences, Smart Material & Engineering (SIASE)**

Conference organized by:



This conference is dedicated to educators all over the world and to the members of the Institute of Applied Sciences and Engineering Technology (IAET) whose passion for teaching, learning, research, and service are helping to transform the academy in many positive ways.

#### **Mission, Vision, and Core Values**

Research & Innovation, Knowledge exploration and sharing, nurturing novel ideas, addressing challenges to Applied Sciences and Engineering Technology.

Lead the scholarly community through global communication and nurturing innovative ideas, developments and experiments in the field of Applied Sciences and Engineering Technology

We try to give our members a positive network/relation building experience by: 1) We have team building/socializing/gaming sessions where the members mix and talk and share with each other in an informal environment. 2) We arrange various customized events and capacity building activities for higher education institutions. 3) Dedicated and committed team to support individual and corporate members of our scholarly community.

#### **Membership, Conference, Publishing, and Research Information**

If you are interested in serving as the volunteer reviewer for the next conference, please contact:

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## IAET International Conference on Space Environmental, Information Technology, Applied Sciences, Smart Material & Engineering

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## Welcome Message

The Institute of Applied Sciences and Engineering Technology (IAET) welcomes you to the IAET International Conference on Space Environmental, Information Technology, Applied Sciences, Smart Material & Engineering (SIASE). We are happy you decided to join your colleagues from around the world to explore innovative technologies, pioneering pedagogical strategies, and a sampling of international collaborations that are being used to engage and retain students, researchers and Scholars in the new millennium.

## Scientific Committee

Lobna Ali Al-Khalifa, National Authority for Qualifications & Quality Assurance of Education & Training (QQA), Bahrain  
Lothar Auchter, University of Applied Science, Kaiserslautern, Germany  
Louise van Scheers, Department of Marketing and Retail, University of South Africa  
Magorzata Magdalena Hybka, Pozna University of Economics and Business, Poland  
Marvin O. Bates, Lewis University, USA  
Maria Binti Abdulrahman, Universiti Utara Malaysia, Malaysia  
Michael D. MacColl, Vancouver Island University, Canada  
Mukherjee Farooq Anwar, The University of Lahore, Pakistan  
Dr. Nik Hazimah Nik Mat, Universiti Malaysia Terengganu, Malaysia  
Dr Mourad Mansour, King Fahd University of Petroleum and Minerals Saudi Arabia  
Majid Asadnabizadeh, University of Payam Noor, Bushehr Centre, Iran  
Phongsakorn Methitham, Naresuan University Phitsanulok, Thailand  
Maduranga Pushpika Kumara Withanawasam, University of Sri Jayewardenepura Nugegoda, Sri Lanka  
Rodney Oudan, Worcester State University in Massachusetts, USA  
Roger B Mason, Cape Peninsula University of Technology, South Africa  
Sampath Kumar, University of Wisconsin Green Bay, USA  
Salil K Sen, NIDA Business School, Bangkok, Thailand  
Simon Best, Medgar Evers College, New York, USA  
Yongmei Bentley, University of Bedfordshire, UK

## Acknowledgements

The organizing committee would like to thank all those people who were involved in making the conference a success. A great amount of planning and organizing is required to hold a successful conference, so we are indebted to those who volunteered their time and energy.

We want to thank all the members of the Institute of Applied Sciences and Engineering Technology (IAET) who volunteered their time to help organize the conference.

## **ENGINEERING TECHNOLOGY**

Acoustical Engineering Aerospace Engineering, Agricultural Engineering Biological Engineering and Sciences, Biological Systems Engineering Biomedical Engineering, Bioprocess Engineering Biotechnology, Building Services Engineering Chemical Engineering, Industrial Engineering Information Engineering, Informational Technology Manufacturing Engineering and Technology, Materials Engineering Mechanical Engineering, Mechatronics Nanotechnology and Nanoengineering, Naval Engineering Nuclear Engineering, Technology for Cloud Computing Technology for Community, Technology for Digital Age Technology for Human Use, Technology for Learning Civil Engineering, Computer Engineering Current issues and challenges in Engineering, Electrical Engineering Electronic Engineering, Energy Engineering Environmental Engineering, Food Engineering Genetic Engineering, Geotechnical Engineering Ocean Engineering and Technology, Optical Engineering Petroleum Engineering, Power Engineering Process Engineering, Resource Engineering Sensing Technology, Structural Engineering Systems and Software Engineering, Technology for Big Data Textile Engineering, Thermal Engineering Transport Engineering, Web Engineering Vehicle Engineering.

## **APPLIED SCIENCES**

Artificial Intelligence, Architecture, Astronomy, Biological Sciences, Botany, Chemistry, Design, Earth Science, Ecology, Marine Science, Physics, Space Sciences, Life sciences, Computer Sciences, Logic, Mathematics, Statistics, Systems Science, Electrical Engineering, Information, Technology, Industrial Engineering, Mechanical Engineering, Applied Physics, Health Sciences and Medicine, Ceramic Engineering, Computing Technology, Electronics, Energy, Environmental Engineering Sciences, Engineering physics, Environmental Technology, Fisheries Science, Forestry Science, Materials Engineering Micro technology, Nanotechnology, Nuclear, Technology, Optics, Zoology Transportation

## Conference Schedule

### IAET International Conference on Space Environmental, Information Technology, Applied Sciences, Smart Material & Engineering (SIASE)

Mercure Hotel Amsterdam City  
May 25-26, 2019

SIASE-2019

Saturday, May 25, 2019

#### Day-at-a-Glance

09:00 am - 09:20 am	Registration and Kit Distribution
09:20 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
10:00 am - 10:30 am	Tea



## Session 01

10:30 am - 12:00 pm

### Track 01: Business, Economics, Social Sciences and Humanities

The Language Development of Successful Language Users in ELT Professionals

*Speaker: Phongsakorn Methitham — English Department, Naresuan University Phitsanulok, Thailand.*

The Contemporary Visualization of Thai Mythological Creatures: Winged Ayara, Human Naga, and Human-bird Hybridized Khрут

*Speaker: Dr. Rattapol Chaiyarat — Department of Mass Communication, Faculty of Business, Economics, and Communication Naresuan University Phitsanulok, Thailand.*

Linking Self-Deception, Emotional Neglect and Workplace Victimization: Conceptual Overview and Ideas for Research

*Speaker: Sanket Sunand Dash —Xavier University Bhubaneswar, India*

### Track 02: Engineering, Technology & Applied Sciences

The Scorecard for Cap-and-Trade versus Big Oil in California

*Speaker: James Tanoos — Purdue University Vincennes, Indiana, USA*

**Lunch (12:00 pm - 01:00 pm)**

## Conference Attendees

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

Participant Name: Muhammad Jehanzaib Chaudhry

Reference ID: MRBSS-59-05

Affiliation: Mathematics & Computer Skills Departments, Academic Bridge Program, Qatar Foundation

Participant Name: Abdimomun Iuldashev

Reference ID: AMS-459-101A

Affiliation: Orlando Regional Medical Center (Address: 52 West Underwood, Orlando Florida,USA, 32806)

Participant Name: Dr. Manjinder Singh Saini

Reference ID: AMS-459-102A

Affiliation: City Diagnostics, India

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**IAET International Conference on Space Environmental, Information  
Technology, Applied Sciences, Smart Material & Engineering**

**SIASE-2019**

**Sunday, May 26, 2019**

Conference second day is reserved for participants own tourism activities.

## **Conference Abstracts**

### **Track 1: Business, Economics, Social Sciences and Humanities**

# The Language Development of Successful Language Users in ELT Professionals

Dr. Phongsakorn Methitham \*  
English Department, Naresuan University Phitsanulok, Thailand  
**Corresponding email:** phongsakorn26@yahoo.com

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Second language (hereafter L2) learning experience among the so-called non-native English speakers has been marginalized in mainstream Second Language Acquisition (SLA). Previous research studies on these multicompetent language users successful users of more than one language have tended to focus on what these users lack rather than on what they have achieved. Against this backdrop, the language achievement throughout their L2 learning experience is necessary to be explored. This study aims at exploring the L2 learning experience of 12 Thai teachers of English in tertiary level. The research data were derived from narratives of their first, second, or third language learning experience. These non-native English-speaking participants are considered as successful second-language users who are not only have the knowledge of the language, but also able to utilize the language they have in expanding their educational, personal, and professional horizons. The results also reveal that their language achievement is interwoven with multi-factors: 1) neighborhood and family influences including family education background, family support, multi-lingual family/community environment, family literacy practices and activities, 2) first and second language classroom influences, 3) influences of real context of language use. This study implies that individual language achievement is multi-dimensions. Family and community play a major role in participants language achievement by encouraging and maintaining their positive values, attitudes, and motivation towards language learning while schooling is tended to emphasize more on advancing linguistic and strategic knowledge. In addition, the real life contexts of use accommodate participants accuracy, fluency, and appropriateness.

**Index Terms:** Second Language Acquisition, Nonnative English Speaker, Learning Experience

# The Contemporary Visualization of Thai Mythological Creatures: Winged Ayara, Human Naga, and, Human-bird Hybridized Khрут

Dr. Rattapol Chaiyarat\*

Department of Mass Communication, Faculty of Business, Economics, and Communication Naresuan University  
Phitsanulok, Thailand

**Corresponding email:** rxchiya@hotmail.com

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The creation of visual cultural representation has recently become a phenomenon in digital media. In Thailand, the digital imagery representing the cultural identity is insufficient to advance creative media industry. This study aims at exploring the contemporary visual images of Winged Ayara Elephant, Human Naga Serpent, and Human-Bird Hybridized Khрут Eagle: a mythological creature that is created and motivated by elephant, serpent, and eagle hybrid characteristics. The study focuses on how the images of Thai mythological creatures visually characterize in the traditional and contemporary artworks. These crossbreed characteristics have become the national emblem since early years of Southeast Asian civilization, and have served ritual functions in various Thai cultural ceremonies. Traditional cultures in this region are often influenced by Hindu-Buddhist beliefs; hence, the images of mythological creatures become symbols of power, authority, courage, and honesty. Their physical appearance on Buddhist and Hindu temples and architecture could mysteriously circulate their creative influences to the surrounding area, and protect it from undesirable impostors. My investigation of these enigmatic creatures in visual representation and culture brings together theoretical aspects of visualization, representation, contemporary culture, and communication. Their images are anatomically re-constructed and geographically placed, and the visualization of the mystical creatures can be interpreted in historical and contemporary contexts. As a result, I will be able to create digital imagery new characters of Ayara, Naga, and Khрут. The characters respond visually to the process of recreating images of Thai contemporary mythological creatures. Thai culture identities represented through the digital image characters are in focus in the highly competitive world of visual representation.

**Index Terms:** Mythological, Human-Bird Hybridized, Digital Media

# Linking Self-Deception, Emotional Neglect and Workplace Victimization: Conceptual Overview and Ideas for Research

Sanket Sunand Dash \*

Xavier University Bhubaneswar, India

**Corresponding email:** sanket@xshrm.edu.in

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The paper defines workplace victimization as any behavior that impairs employees basic psychological needs and studies the traits and behaviors that can lead to increased instances of workplace victimization. This study zeroes in on self-deception and emotional neglect as two possible antecedents of workplace victimization and explores the genesis of the two concepts and their conceptual and empirical links to each other and to workplace victimization. Based on the conceptual analysis, it identifies lack of intentionality as a common element in both constructs and identifies a set of possible frameworks linking self-deception, emotional neglect and workplace victimization for future research. It concludes by identifying four possible frameworks to model the expected association and advocates for investigation of these given models to check whether one has considerable expository success than the other by either connecting or disassociating these two constructs. The study can help develop the research on the links between being high on trait self-deception and experiencing/inflicting emotional neglect, thereby further building on the literature on appropriate organizational behavior.

**Index Terms:** Workplace Victimization, Empirical Links, Self-Deception

## **Conference Abstracts**

### **Track 2: Engineering, Technology & Applied Sciences**



# The Scorecard for Cap-and-Trade Versus Big Oil in California

James Tanoos\*

Purdue University Vincennes, Indiana, USA

**Corresponding email:** jtanoos@purdue.edu

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Enhanced regulatory authority exercised by US state governments has resulted in disparate laws across states related to tax rates, drug policies, and laws affecting personal liberties, among other political issues. This has also resulted in stringent environmental legislation in some areas and lax or nonexistent regulation in others, prompting inconsistent pollution regulations. One innovative approach to limiting emissions is the cap-and-trade program in California. In the past, the oil industry in California has been too powerful to be hampered by state-level regulations, and lawmakers have historically failed to thwart the power of Big Oil. However, a whirlwind of recent events has prompted the expansion of cap-and-trade to the oil industry. While cap-and-trade has overwhelmingly been deemed a success in limiting greenhouse gas emission as well as in earning revenue for the state, its effect on oil organizations has not been analyzed on a macro level. The changes in productivity in the California oil sector as it relates to changes in pollution since the expansion of cap-and-trade merits an analysis.

**Index Terms:** Big Oil, Cap-and-Trade, Limiting Greenhouse

## Upcoming Events

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