

# Conference Program

February 06-08, 2018

Osaka

ACENS

Asian Conference on Engineering and Natural  
Sciences

ISFAS

International Symposium on Fundamental and  
Applied Sciences

ISSSM

International Symposium on Social Sciences and  
Management

**ACENS**

**Asian Conference on Engineering and Natural Sciences**

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**ISFAS**

**International Symposium on Fundamental and Applied Sciences**

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**ISSSM**

**International Symposium on Social Sciences and Management**

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## Content

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<b>Welcome Message</b> .....	5
<b>General Information for Participants</b> .....	7
<b>International Committees</b> .....	9
<b>Special Thanks to Session Chairs</b> .....	13
<b>Conference Venue Information</b> .....	14
<b>International House Osaka</b> .....	16
<b>Conference Schedule</b> .....	18
<b>Natural Sciences Workshop Session</b> .....	22
<b>Social Sciences Keynote Speech (1)</b> .....	25
<b>Oral Sessions</b> .....	27
<b>Mechanical Engineering and Technology (1)/ Applied Sciences (1)/ Materials Science and Engineering (1)</b> .....	27
<b>Economics (1)/ Management (1)</b> .....	28
<b>Communication (1)/ Education (1)/ Psychology (1)</b> .....	29
<b>Information Engineering and Technology (1)/ Electrical and Electronic Engineering (1)</b> .....	30
<b>Mechanical Engineering and Technology (2)/ Materials Science and Engineering (2)</b> .....	32
<b>Biology/ Biological Engineering</b> .....	33
<b>Education (2)/ Communication (2)/ Society (1)</b> .....	35
<b>Civil Engineering (1)</b> .....	37
<b>Aeronautics &amp; Aerospace Engineering (1)/ Power &amp; Energy Engineering (1)/ Environmental Engineering (1)</b> .....	39
<b>Education (3)/ Communication (3)/ Culture</b> .....	41
<b>Mechanical Engineering and Technology (3)/ Materials Science and Engineering (3)/ Electrical and Electronic Engineering (2)</b> .....	42
<b>Environmental Engineering (1)/ Aeronautics &amp; Aerospace Engineering (2)/ Power &amp; Energy Engineering (2)/ Earth Sciences</b> .....	43
<b>Education (4)/ Communication (4)/ Law</b> .....	45
<b>Computer Engineering/ Electrical and Electronic Engineering (3)/ Information Engineering and Technology (2)/ Computer Technologies</b> .....	47
<b>Chemistry/ Chemical Engineering/ Physics/ Applied Sciences (2)</b> .....	49
<b>Society (2)/ Education (5)/ Psychology (2)</b> .....	50
<b>Mechanical Engineering and Technology (4)/ Materials Science and Engineering (4)/Civil Engineering (2)</b> .....	52

Economics (2)/ Management (2).....	53
Education (6)/ Society (3)/ Psychology (3)/ Communication (5).....	54
Information Engineering and Technology (3)/ Electrical and Electronic Engineering (4).....	55
Management (3)/ Economics (3)/ Finance.....	56
Education (7)/ Communication (6)/ Society (4) .....	57
<i>Poster Sessions (1)</i> .....	58
Electrical and Electronic Engineering (1)/ Applied Sciences (1)/ Computer Engineering/ Environmental Engineering (1)/ Green Technology/ Information Engineering and Technology/ Power & Energy Engineering .....	58
<i>Poster Sessions (2)</i> .....	62
Chemistry/ Chemical Engineering/ Applied Sciences (2)/ Earth Sciences / Aeronautics & Aerospace Engineering .....	62
<i>Poster Sessions (3)</i> .....	67
Management/ Education (1)/ Finance/ Society.....	67
<i>Poster Sessions (4)</i> .....	71
Civil Engineering/ Industrial and Manufacturing Technologies/ Mechanical Engineering and Technology/ Physics/ Transportation/ Electrical and Electronic Engineering (2).....	71
<i>Poster Sessions (5)</i> .....	75
Materials Science and Engineering (1)/ Biological Engineering (1)/ Electrical and Electronic Engineering (3) .....	75
<i>Poster Sessions (6)</i> .....	80
Biology/ Biological Engineering (2)/ Applied Sciences (3)/ Agricultural Engineering and Technologies .....	80
<i>Poster Sessions (7)</i> .....	84
Education (2)/ Psychology/ Communication.....	84
<i>Poster Sessions (8)</i> .....	88
Environmental Engineering (2)/ Materials Science and Engineering (2) .....	88

## Welcome Message

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### Local Host

#### Dr. Stacey Vye

Professor

Associate Professor at Saitama University, Japan

A Doctoral Candidate at the University of Southern California, Rossier School of Education, Organizational Change and Leadership

*Dear Delegates:*

*I would like to welcome you to Osaka, Japan for the Joint Conference of ACENS, ISFAS and ISSSM of 2018, sponsored by the Higher Education Forum (HEF) at the International House in Osaka, which is affectionately known as iHOUSE. The venue truly represents the foundation's desire to strengthen international friendships from citizens of the world and Japan. This conference is a large group of academic delegates and a well-balanced representation of authors and co-authors from many countries. This gathering equates to many inspiring researchers coming together at this conference to discuss pressing and timely issues that affect our interdisciplinary research and business management community. Gathering at this season is also a robust way of starting out the year 2018!*

*I believe celebrating our diversity leads to innovative ways of addressing complex problems and challenging times that our world faces long after the conference has concluded. Therefore, the Osaka 2018 conference is an invaluable opportunity to exchange ideas and information with our conference community. Communication contributes not only to prosperous connections, but also for the sharing of critical thinking, knowledge, cognition, and leadership principles, that can lead to effective change, which might make this world a gentler place. I am inspired work with the HEF Organization to bring delegates together from multiple disciplines, to learn from each other and advance new ideas for your research and professional development. There are a variety of ways to continue essential discussions with the delegates during the conference at the coffee and tea breaks and during dinner after the symposium at the end of each day in a relaxing atmosphere. We are here to discuss social sciences, management, leadership, and other professional concerns, so let's make the most of our collaborations for a genuinely informative conference experience. The partnerships can be transformational, and what a great place to achieve this goal in Osaka, Japan.*

*During your stay, Osaka has a distinct culture with bunraku or puppet theater, Kabuki, and manzai comedy, not to mention the local delicacies and shopping experiences, which should not be missed during your stay. The World Heritage sites of Kyoto and Nara are nearby wonders of the world. Also, the historic port town of Kobe is also a fantastic experience. Please take advantage of the travel section of the conference Osaka 2018 website for more options to consider. Finally, I have lived longer in Japan in the Kanto region than in my own country. If you have any questions or queries about the locale, please do not hesitate to contact me. I may not know all your queries, but I can hopefully steer you in the right direction. Do have a pleasant stay in Osaka, Japan.*

*Stacey Vye.*

## ***General Information for Participants***

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### ■ **Registration**

The registration desk will be situated at **1<sup>st</sup> floor of International House Osaka** during the following time:

**14:00-16:00, Tuesday, February 6, 2018**

**08:30-16:00, Wednesday, February 7, 2018**

**08:30-16:00, Thursday, February 8, 2018**

### ■ **A Polite Request to All Participants**

Participants are requested to arrive in a timely fashion for all addresses. Presenters are reminded that the time slots should be divided fairly and equally by the number of presentations, and that they should not overrun. The session chair is asked to assume this timekeeping role and to summarize key issues in each topic.



Sandals or Slippers



Tank Top



Shorts

### ■ **Certificate**

#### **Certificate of Presentation or Certificate of Attendance**

A certificate of attendance includes participant's name and affiliation, certifying the participation in the conference. A certificate of presentation indicates a presenter's name, affiliation and the paper title that is presented in the scheduled session.

#### **Certificate Distribution**

Oral presenters will receive a certificate of presentation from the session chair at the end of the session. Poster presenters will receive a certificate of presentation from the conference staff at the end of their poster session.

The certificate of presentation will not be issued, either at or after the conference, to authors whose papers are registered but not presented. Instead, the certificate of attendance will be provided after the conference.

■ **Preparation for Oral Presentations**

All presentation rooms are equipped with a screen, an LCD projector, and a laptop computer installed with Microsoft PowerPoint. You will be able to insert your USB flash drive into the computer and double check your file in PowerPoint. We recommend you to bring two copies of the file in case that one fails. You may also connect your own laptop to the provided projector; however please ensure you have the requisite connector.

**Preparation for Poster Presentation**


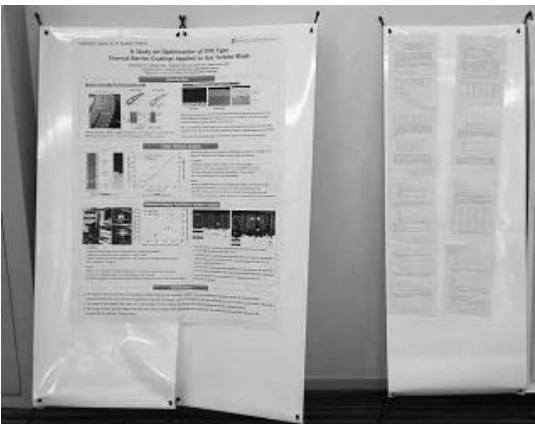
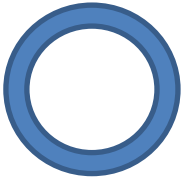

**Materials Provided by the Conference Organizer:**

1. X-frame display & base fabric canvases (60cm×160cm)
2. Adhesive tapes or binder clips

**Materials Prepared by the Presenters:**

3. Home-made poster(s)
4. Material: not limited, can be posted on the canvases
5. Recommended poster size: 60cm\*120cm



	
<p>A 60cm*160cm poster illustrates the research findings.</p>	<ol style="list-style-type: none"> <li>1. Wider than 60cm (left)</li> <li>2. Copy of PowerPoint slides in A4 papers (right)</li> </ol>
	



## International Committees

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### International Committee of Social Sciences

Adeeb Jarrah	United Arab Emirates University	UAE
Ahrar Husain	Jamia Millia Islamia - A Central University	Indian
Al Faithrich C. Navarrete	University of Santo Tomas	Philippines
Alex Yao Tang	National Cheng Kung University	Taiwan
Alice H. Y. Hon	The Hong Kong Polytechnic University	Hong Kong
Amol Gore	Università degli Studi di Padova	Thailand
Atefeh Ferdosipour	Azad University (East Tehran Branch)	Iran
Azidah Abu Ziden	Universiti Sains Malaysia	Malaysia
Azilawati	Nanyang Technological University, Singapore	Singapore
Aziz Bin Ahmad	University Malaysia Terengganu	Malaysia
B. Suresh Lal	Kakatiya University	India
Badar Alam Iqbal	Aligarh Muslim University	India
Bayram Akarsu	Erciyes University	Turkey
Bor-Tyng Wang	Feng Chia University	Taiwan
Brian Hunt	Mahidol University	Thailand
Carrie Hagan	Indiana University	USA
Cathine G. Scott	Morris College in Sumter	USA
Chang Y. Lee	California State University, Chico	USA
Chen-Sung Chang	Nan Kai University of Technology	Taiwan
Cheol Park	Korea University	South Korea
Chib	Datta Meghe Institute of Management Studies	India
Ching-Yi Tien	I-Shou University	Taiwan
Darshan Kaur Narang	University of Rajasthan, Jaipur	India
David C. Donald	The Chinese University of Hong Kong	Hong Kong
David Yoon	Universitaire Léonard de Vinci	France
Dharam Vir Mahajan	CCS university, Meerut	India
Donald L. Amoroso	Auburn University at Montgomery	USA
Donghun Lee	Sungkyunkwan University	South Korea
E. Daniel Shim	Sacred Heart University	USA
Eddy K.W. Li	The Chinese University of Hong Kong	Hong Kong
Edward Hwang	Chung Hua University	Taiwan
Emiko Tsuyuki	Chuo University	Japan
Ernest Lim Kok Seng	Taylor's University	Malaysia
Funda Varnaci Uzun	Aksaray University	Turkey

Gajendra Singh	Satyawati College, University of Delhi	India
Halil Ibrahim Gurcan	Anadolu University	Turkey
Hamzeh Dodeen	United Arab Emirates University	UAE
Henry Ma	The Hong Kong Polytechnic University	Hong Kong
Intan Soliha Binti Ibrahim	Universiti Malaysia Sabah	Malaysia
Irene Guatno Toribio	Philippine Christian University	Philippines
Jalil Safaei	University of Northern British Columbia	Canada
Jamie Halsall	University of Huddersfield	UK
Jian-Horng	Chen Chung Shan Medical University	Taiwan
Jill Thompson-White	Edith Cowan University	Australia
John Christian S. Jardin	Palawan State University	Philippines
Jonas Chao-Pen Yu	Takming University of Science and Technology	Taiwan
Jongkun Jun	Hankuk University of Foreign Studies	South Korea
José G. Vargas-Hernández	Universidad de Guadalajara	México
Joseph Lau	The University of Hong Kong	Hong Kong
Joy Kamakamaewailani Rodriguez	Beijing Forestry University	USA
Joyce Zhou	Emporia State University	USA
Julia Wong	Family Justice Courts Singapore	Singapore
K. Prakash Vel	University of Wollongong	Dubai
Kaedsiri Jaroenwisan	Silpakorn Univesity	Thailand
Kanokphon Chantanarungpak	Srinakharinwirot University	Thailand
Karen Miranda Fernandez	Imus Institute	Philippines
Keith H. Sakuda	University of Hawai'i - West O'ahu	USA
Kim , Kyung Hee	Mokpo National University	South Korea
Kim Sangho	Ritsumeikan Asia Pacific University	Japan
Kim, Deok Man	Baekseok University	South Korea
Kimble Byrd	Rowan University	USA
Krishna Govender	AAA School of Advertising	South Africa
Kurt W. Ackermann	Hokusei Gakuen University	Japan
Lin, Hsiao-Tseng	Meiho University	Taiwan
Linda Oshita	University of Hawaii	USA
Linda Ross	Rowan University	USA
Maria Cristina M. De los Santos	Kyungdong University-Global Campus	South Korea
Marie Paz E. Morales	Philippine Normal University	Philippines
Masoud Kavooosi	The George Washington University	USA
Mehryar Nooriafshar	University of Southern Queensland	Australia

Michael Kao	Chang Gung University	Taiwan
Micheal Kon	Aletheia University	Taiwan
Ming-Chang Chih	National Chung Hsing University	Taiwan
Mingchu (Neal) Luo	Emporia State University	USA
Mohamad Hafis Amat Simin	University Sultan Zainal Abdin	Malaysia
N. S. Ravishankar	Axis Bank	India
Naim Uzun	Aksaray University	Turkey
Nezaket Memmedli	Azerbaijan National Academy of Sciences	Azerbaijan
Obydullah Al Marjuk	Independent University, Bangladesh	Bangladesh
Ozgul Keles	Aksaray University	Turkey
Pete C. Kutschera	AMERASIAN RESEARCH NETWORK, Ltd.	USA
Peter Morton	Chinese Culture University	Taiwan
Prasong Tanpichai	Kasetsart University	Thailand
Qi Wang	University of Southern Denmark	China
Rajesh U. Chheda	Shri. MD Shah Mahila College	India
Ramayah Thurasamy	Universiti Sains Malaysia	Malaysia
Reem Abed Almotaleb Abuiyada	Dhofar University	Palestine
Ricky Ng	Vocational Training Council	Hong Kong
Ricky Yuk-Kwan Ng	Vocational Training Council, Hong Kong	Hong Kong
Ronald Griffin	Florida Agricultural & Mechanical University	USA
Rotaru Ioan-Gheorghe	Timotheus Brethren Theological Insititute of Bucharest	Romania
Ruby Ann L. Ayo	Bicol University	Philippines
Sadiq Abdulwahed Ahmed Ismail	United Arab Emirates University	UAE
Sally dhruva' Stephenson	Frosterburg State University	USA
Seonjeong Ally Lee	Kent State University	USA
Shaik. Feroz	Caledonian College of Engineering	Oman
SHANG Songmin	The Hong Kong Polytechnic University	Hong Kong
Shujen Lee Chang	Asia University	Taiwan
Soon SONG	Wonkwang University	South Korea
Suzanne Beasterfield	Idaho State University	USA
Szu-Wei (Chris) Chen	I-Shou University	Taiwan
T.S.Devaraja	University of Mysore, Hemagangothri Campus	India
Tan Khay Boon	SIM Global Education	Singapore
Theeraphab Phetmalaikul	Srinakharinwirot University	Thailand
Thoedsak Chomtohsuwan	Rangsit University	Thailand

Vijayaletchumy Subramaniam	Universitas Putra Malaysia	Malaysia
Vivian Louis Forbes	The University of Western Australia	Australia
Wang Yu-Shan	National Kaohsiung First University of Science and Technology	Taiwan
Warren Matthews	Belhaven University	USA
Wei-Cheng(Joseph) Mau	Wichita State University	USA
Wen-Pei Sung	National Chin-Yi University of Technology	Taiwan
William Richeson	University of Kentucky	USA
Ye PeiShi	Family Justice Courts Singapore	Singapore
Ying Zhang	Southeast University	China
Yong Won Seo	Chung-Ang University	Korea
Yong-Ho Kim	Pukyong National University	South Korea
Yuki Yokohama	Kanto Gakuin University	Japan
Zabihollah Rezaee	The University of Memphis	USA
Zhou Xiao	Fudan University	China

## *Special Thanks to Session Chairs*

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Sittinan Thongsiri	Rajabhat Uttaradit University
Rong-Shine Lin	National Chung Cheng University
Gerard White	Hubei University of Technology
Chumporn Moorapun	King Mongkut's Institute of Technology Ladkrabang
Felix T.S. Chan	The Hong Kong Polytechnic University
Abhilasha Shourie	Manav Rachna International University
David Elmes	National Institute of Fitness and Sports
Yit-Jin Chen	Chung Yuan Christian University
HeeKap Lee	Azusa Pacific University
Taesung Kim	Ulsan National Institute of Science and Technology
Byoungsoo Kim	Chungnam National University
Chia-Yin Yu	Fu Jen Catholic University
Ayub Md. Som	Universiti Teknologi MARA
Panu Danwanichakul	Thammasat University
Hwee Ling Lim	Khalifa University of Science & Technology
Wen-Der Yu	Chaoyang University of Technology
Keith H. Sakuda	University of Hawaii West Oahu
Min-Ju Tsai	National University of Tainan
Worapong Pairindra	Valaya Alongkorn Rajabhat University
Yuan-Ho Hsu	National Cheng Kung University
Meng-Cong Zheng	National Taipei University of Technology

# Conference Venue Information

## The 2<sup>nd</sup> floor

### International House Osaka

2-6 Uehommachi 8-chome, Tennoji-ku, Osaka 543-0001, Japan

Phone: +81-6-6772-6729

### Location

International House, Osaka (iHOUSE / Osaka Conference Center & Hotel) which was established in 1987 in the town of Uehommachi (South part of Osaka City), is a representative convention facility of Osaka.

Based in Osaka, International House, Osaka (iHOUSE) acts as a focal point for international exchange activities within the Kansai Region. By exploring the history, culture and other local aspects of Japan and other countries the Foundation strives to help foster a mutual understanding and friendship between citizens, and deepen relationships between Japan and other countries of the world.



# Transportation

Access to International House, Osaka

\*Subway:

[Tanimachi 9-chome Station] (Tanimachi and Sennichimae Lines) Exit No.3 or 5. 10minutes walk.

[Shitennoji-mae Yuhigaoka Station] (Tanimachi Line) Exit No.1 or 2.

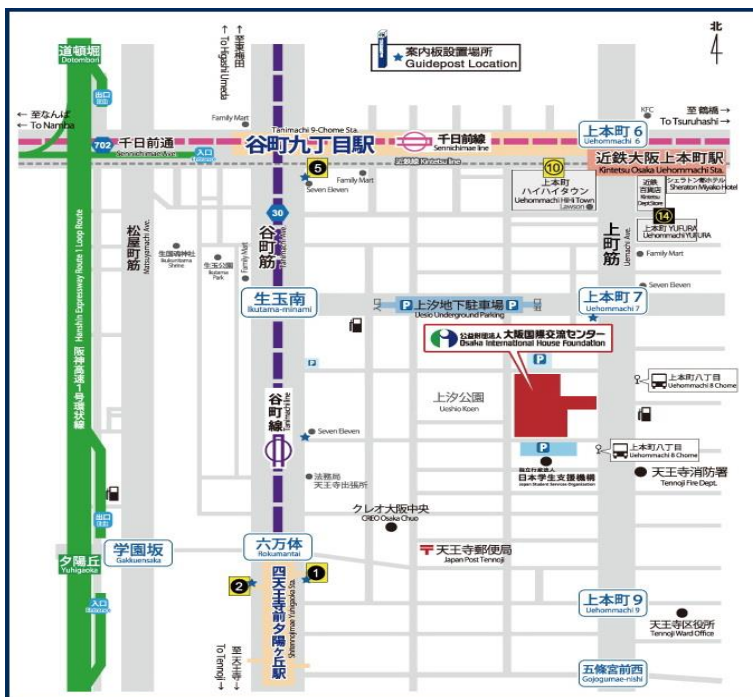
10minutes walk.

\*Kintetsu Railway

[Osaka-Uehommachi Station] 5minutes walk.

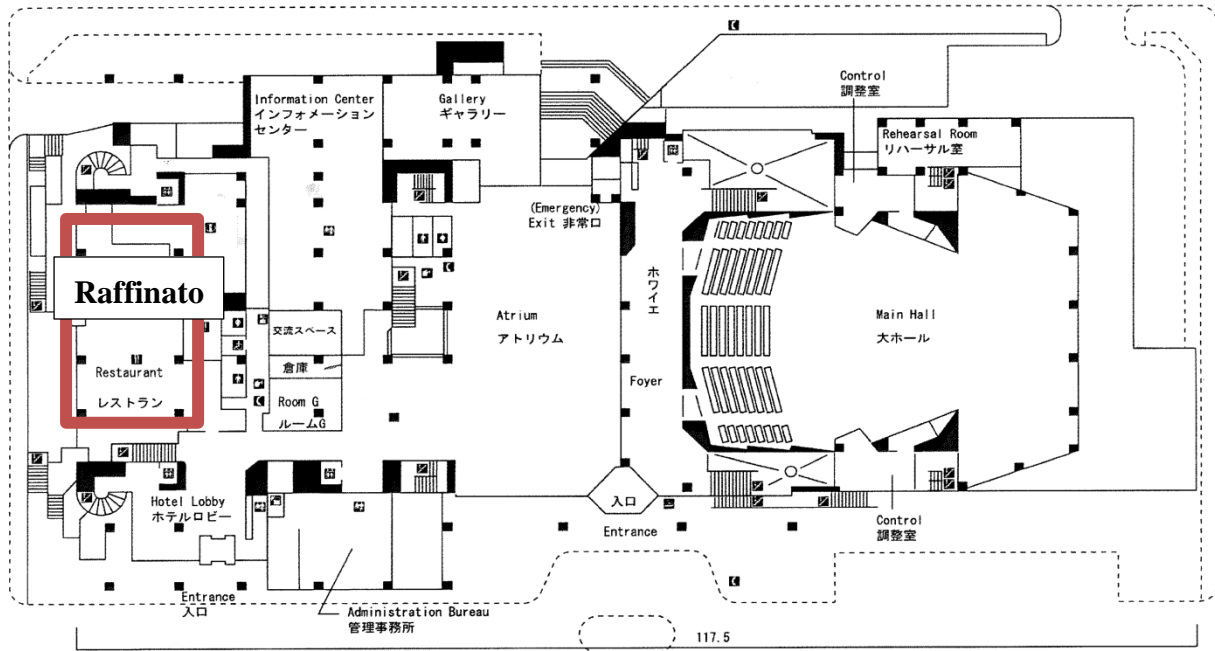
\*City bus

[Uehommachi 8-chome Bus Stop] 1minutes walk.

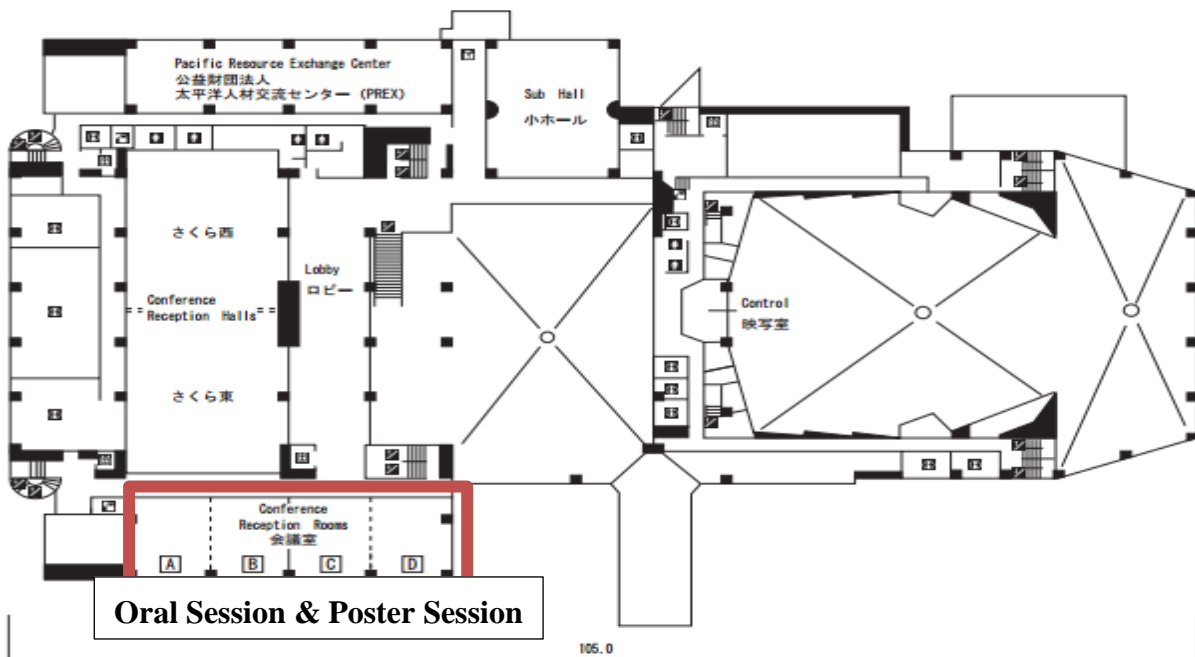


# International House Osaka

## The 1<sup>st</sup> floor plan



## The 2<sup>nd</sup> floor plan



Registration: 1<sup>st</sup> floor

Oral Session: 2<sup>nd</sup> floor – Room B, C and D

Poster Session: 2<sup>nd</sup> floor – Room A



Tea Break & Networking: 2<sup>nd</sup> floor

Lunch: 1<sup>st</sup> floor Raffinato

## Conference Schedule

Tuesday, February 6, 2018		
<b>14:00-16:00</b>	<b>Pre-Registration</b>	Near front gate, 1F

Wednesday, February 7, 2018		
Oral Session		
Time	Schedule	Venue
<b>08:30-16:00</b>	<b>Registration</b>	1F
<b>09:00-10:30</b>	Mechanical Engineering and Technology (1)/ Applied Sciences (1)/ Materials Science and Engineering (1)	Room B
	Economics (1)/ Management (1)	Room C
	Communication (1)/ Education (1)/ Psychology (1)	Room D
<b>10:30-10:45</b>	<b>Tea Break &amp; Networking</b>	Room A
<b>10:45-12:15</b>	<p><b><u>Natural Sciences Workshop Session</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>Dr. Alina Shamsuddin</u></b> <b><u>Topic:</u></b> Introducing Blended Learning Approach In The Undergraduate Technology Management Course</li> <li>• <b><u>Dr. Chee-Ming Chan</u></b> <b><u>Topic:</u></b> Undergraduate Entrepreneurship Course For Civil Engineering Technology Students: Innovation In Delivery</li> <li>• <b><u>Dr. Azeanita Suratkon</u></b> <b><u>Topic:</u></b> Developing An Undergraduate Architecture Programme For The 21st Century Market</li> </ul>	Room B
	<p><b><u>Social Sciences Keynote Speech</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>Prof. Keith H. Sakuda</u></b> <b><u>Topic:</u></b> <i>Social Entrepreneurship Education as a Means for Inspiring Social Change</i></li> <li>• <b><u>Prof. Stacey Vye</u></b> <b><u>Topic:</u></b> <i>Maintaining Effective Communication for Improved Organizational Change</i></li> </ul>	Room C

## Wednesday, February 7, 2018

### Oral Session

Time	Schedule	Venue
<b>10:45-12:15</b>	Information Engineering and Technology (1)/ Electrical and Electronic Engineering (1)	Room D
<b>12:15-13:15</b>	<b>Lunch Time</b>	<b>1F Raffinato</b>
<b>13:15-14:45</b>	Mechanical Engineering and Technology (2)/ Materials Science and Engineering (2)	Room B
	Biology/ Biological Engineering	Room C
	Education (2)/ Communication (2)/ Society (1)	Room D
<b>14:45-15:00</b>	<b>Tea Break &amp; Networking</b>	Room A
<b>15:00-16:30</b>	Civil Engineering (1)	Room B
	Aeronautics & Aerospace Engineering (1)/ Power & Energy Engineering (1)/ Environmental Engineering (1)	Room C
	Education (3)/ Communication (3)/ Culture	Room D

## Wednesday, February 7, 2018

### Poster Session (Room A)

Time	Schedule
<b>13:30-14:20</b>	<b>Poster Sessions (1)</b> Electrical and Electronic Engineering (1)/ Applied Sciences (1)/ Computer Engineering/ Environmental Engineering (1)/ Green Technology/ Information Engineering and Technology/ Power & Energy Engineering
<b>14:30-15:20</b>	<b>Poster Sessions (2)</b> Chemistry/ Chemical Engineering/ Applied Sciences (2)/ Earth Sciences / Aeronautics & Aerospace Engineering
<b>15:30-16:20</b>	<b>Poster Sessions (3)</b> Management/ Education (1)/ Finance/ Society

## Thursday, February 8, 2018

### Oral Session

Time	Schedule	Venue
<b>08:30-16:00</b>	<b>Registration</b>	1F
<b>09:00-10:30</b>	Mechanical Engineering and Technology (3)/ Materials Science and Engineering (3)/ Electrical and Electronic Engineering (2)	Room B
	Environmental Engineering (1)/ Aeronautics & Aerospace Engineering (2)/ Power & Energy Engineering (2)/ Earth Sciences	Room C
	Education (4)/ Communication (4)/ Law	Room D
<b>10:30-10:45</b>	<b>Tea Break &amp; Networking</b>	Room A
<b>10:45-12:15</b>	Computer Engineering/ Electrical and Electronic Engineering (3)/ Information Engineering and Technology (2)/ Computer Technologies	Room B
	Chemistry/ Chemical Engineering/ Physics/ Applied Sciences (2)	Room C
	Society (2)/ Education (5)/ Psychology (2)	Room D
<b>12:15-13:15</b>	<b>Lunch Time</b>	<b>1F Raffinato</b>
<b>13:15-14:45</b>	Mechanical Engineering and Technology (4)/ Materials Science and Engineering (4)/Civil Engineering (2)	Room B
	Economics (2)/ Management (2)	Room C
	Education (6)/ Society (3)/ Psychology (3)/ Communication (5)	Room D
<b>14:45- 15:00</b>	<b>Tea Break &amp; Networking</b>	Room A
<b>15:00- 16:30</b>	Information Engineering and Technology (3)/ Electrical and Electronic Engineering (4)	Room B
	Management (3)/ Economics (3)/ Finance	Room C
	Education (7)/ Communication (6)/ Society (4)	Room D

**Thursday, February 08, 2018**

**Poster Session (Room A)**

<b>Time</b>	<b>Schedule</b>
<b>10:00-10:50</b>	<b>Poster Sessions (4)</b> Civil Engineering/ Industrial and Manufacturing Technologies/ Mechanical Engineering and Technology/ Physics/ Transportation/ Electrical and Electronic Engineering (2)
<b>11:00-12:00</b>	<b>Poster Sessions (5)</b> Materials Science and Engineering (1)/ Biological Engineering (1)/ Electrical and Electronic Engineering (3)
<b>13:30-14:20</b>	<b>Poster Sessions (6)</b> Biology/ Biological Engineering (2)/ Applied Sciences (3)/ Agricultural Engineering and Technologies
<b>14:30-15:20</b>	<b>Poster Sessions (7)</b> Education (2)/ Psychology/ Communication
<b>15:30-16:20</b>	<b>Poster Sessions (8)</b> Environmental Engineering (2)/ Materials Science and Engineering (2)

# Natural Sciences Workshop Session

Room B, 2<sup>nd</sup> floor

10:45–12:15, Wednesday, February 7, 2018

		
<p><b>Alina Shamsuddin (PhD, Strathclyde UK: Tech. Man.),</b> <i>Associate Professor Deputy Dean (Teaching, Learning &amp; Academic Training)</i> <i>Centre for Academic Development &amp; Training / Faculty of Technology Management &amp; Business</i></p>	<p><b>Chee-Ming Chan (PhD, Sheffield UK: Geotech. Eng.),</b> <i>Associate Professor Deputy Dean (Academic &amp; Research)</i> <i>Centre for Graduate Studies / Faculty of Engineering Technology</i></p>	<p><b>Azeanita Suratkon (PhD, Chiba Japan: Construct. Man.)</b> <i>Head of Department (Building &amp; Construction Eng.) Faculty of Civil &amp; Environmental Engineering</i></p>

This workshop endeavours to share the experience of implementing Outcome-based Education (OBE) at Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia in recent years. Various issues and challenges were only to be expected, but innovations made along the way have enabled the works feasible and effective in enhancing the learning experience of students. The 3 cases studies presented encompass scenarios from the social science, engineering technology as well as engineering fields of study, illustrating the diverse approaches adopted at the University within the general framework of OBE.

### **CASE STUDY #1: INTRODUCING BLENDED LEARNING APPROACH IN THE UNDERGRADUATE TECHNOLOGY MANAGEMENT COURSE [DR. ALINA SHAMSUDDIN]**

Technology Management is a core course in the Bachelor of Technology Management programme, where it has been traditionally delivered via face-to-face mode in lecture rooms. With the advent of IT gadgets and internet access, effective lecturer-student interaction and course delivery have appeared strained and lethargic over time. A blended learning approach has been introduced to counter these unfavourable academic fatigue of the course, i.e. incorporation of an online learning management system (LMS) in the existing face-to-face delivery mode. The LMS adopted is Schoology, where students could engage in active discourse with peers and lecturer alike. Course materials were also uploaded in the system for ease of access and students were able to monitor their individual performance real-time. All in all the blended learning approach has reignited interest and excitement in the Technology Management class, creating a more personalised learning experience for the students. Learning outcomes prescribed for the course were not only achieved, but were attained in a manner which diversified and enriched the students' interaction with the lecturer and peers alike.

### **CASE STUDY #2: UNDERGRADUATE ENTREPRENEURSHIP COURSE FOR CIVIL ENGINEERING TECHNOLOGY STUDENTS: INNOVATION IN DELIVERY [DR. CHEE-MING CHAN]**

To inculcate entrepreneurial mindset among graduates of Malaysian universities, in line with aspiration of the Ministry of Higher Education Malaysia to produce future generation of professionals with high resilience, adaptability and global competitiveness, elementary Entrepreneurship has been incorporated in the curriculum of all undergraduate programmes. Considering that Entrepreneurship is traditionally a social science staple, coordinators of technical programmes, including the Bachelor of Civil Engineering Technology, were called upon to design effective delivery approaches to suit the learning needs and context of these future engineering technologists. Utilising basic tenets of the subject matter acquired in lectures, students were guided through a participative learning process of developing a feasible business plan for a product or service in the civil engineering market. The group work spanned across the 14-week semester, where students were actively engaged in a progressive creativity exercise to transform a technical idea into a marketable innovation with a 'wow' factor. By encouraging trans-disciplinary undertaking of the course, students were exposed to the infused excitement of identifying links between their technical know-how with entrepreneurial processes, making the otherwise 'dry' subject a useful and relevant one.

### **CASE STUDY #3: DEVELOPING AN UNDERGRADUATE ARCHITECTURE PROGRAMME FOR THE 21ST CENTURY MARKET [DR. AZEANITA SURATKON]**

Architecture, being an academic programme with professional affiliations, has been developed at the University in compliance with both the standards and requirements of the academic audit and governing professional bodies. Curriculum design of the 3 years undergraduate programme had emphasis laid on both the technical aspect as well the generic skills expected of a 21st century architect. Discourses were held with various stakeholders, including leading architecture firms in the country, Malaysian Institute of Architecture (PAM), Malaysia Qualification Agency (MQA), among others. Benchmarking was also conducted at other institutions of higher learning offering similar programmes, for establishing healthy competition by way of complementing unique features of the respective programmes. In addition, a comprehensive market survey was carried out across a vast spectrum of the existing and potential stakeholders to gauge the sustainability of the newly developed programme. This case study presents the processes adopted throughout the programme development in the general framework of OBE, while highlighting the issues and challenges encountered along the way.

Keywords: outcome-based education, learning outcomes, learning activities, blended learning, assessment, feedbacks, technology management, entrepreneurship, architecture



# Social Sciences Keynote Speech (1)

Room C, 2<sup>nd</sup> floor

10:45-12:15, Wednesday, February 7, 2018

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*Topic: Social Entrepreneurship Education as a Means for Inspiring Social Change*



**Prof. Keith H. Sakuda**

Associate Professor, Management, The University of Hawaii – West Oahu

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## **Abstract:**

Social entrepreneurship is one of the fastest growing disciplines in American higher education. Unofficially defined as the use of business tools and techniques to address social problems, social entrepreneurship can inspire students to effect social change through a blend of compassionate capitalism and business management. However, its interdisciplinary nature and unique position between the academic and practical worlds makes it a challenging discipline for educators and administrators. This presentation will introduce the concept of social entrepreneurship and provide a brief overview of how educators can encourage students to pursue their own paths towards creating change in the world. Examples from the presenters' experiences, including his award-winning work to promote food sovereignty in the Pacific Islands; will be shared to demonstrate the potentials and pitfalls of social entrepreneurs. Recommendations will also be provided on how to motivate and support students to reshape their world through social entrepreneurship.

## **Introduction of Prof. Keith H. Sakuda**

Keith H. Sakuda is an Associate Professor of management at the University of Hawaii – West Oahu. His research interests include cross-cultural management, intercultural relations, and social entrepreneurship. He is also a former president of the Western Casewriters Association and a board member of the Hawaii Global Education Foundation. Keith's industry consulting includes awards in agricultural and sustainable entrepreneurship, and he was an invited speaker at Harvard University's Social Entrepreneurship Conference.

# Social Sciences Keynote Speech (2)

Room C, 2<sup>nd</sup> floor

10:45-12:15, Wednesday, February 7, 2018

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*Topic: Maintaining Effective Communication for Improved Organizational Change*



**Prof. Stacey Vye**

Associate Professor, the Center for English Education and Development (CEED), Saitama University, Japan

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## **Abstract:**

Whether an individual is new to their profession has a lot of experience in an organization or somewhere in between, it can be challenging to communicate initiatives for positive change. There may be limitations getting one's point across that include, but is not limited to the message itself, brevity, effective communication, passion, pitch, verbal cues, visual aids, and the urgency for change. Not being able to communicate well-intended proposals and findings that can lead to efficiency, cost effectiveness, and greater learning gains is a lost opportunity for organizational change. This workshop will explore operational ways in which the participants can work out practical strategies to communicate their intended message with persuasion, data-driven results, a conviction for the need for change, and story telling. This workshop will also be useful for delegates at the Higher Education Forum Osaka 2018 Conference to refine the effectiveness of their messages efficiently and resourcefully.

## **Introduction of Prof. Stacey Vye**

Stacey Vye is an associate professor at Saitama University at the Center for English Education and Development (CEED) in Japan. She also is a doctoral candidate at the USC Rossier School of Education in the Organizational Change and Leadership EdD program. Her research interests focus on exploring learner and teacher reflection, organizational change, and learner and teacher autonomy in language education, including the connections between both capacities. She was previously on the Learner Development SIG Committee of the Japan Association of Language Teachers (JALT) for many years in various capacities including co-coordinator. She can be reached at <stacey.vye@usc.edu>.

**Mechanical Engineering and Technology (1)/ Applied Sciences**

**(1)/ Materials Science and Engineering (1)**

**Wednesday, February 07, 2018 09:00 -10:30 Room B**

Session Chair: *Prof. Rong-Shine Lin*

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**ACENS-0180**

**Collision Detections for Five-Axis Machining, Using Improved Separating Axis Method**

Rong-Shine Lin | *National Chung Cheng University*

Hong-Tzong Yau | *National Chung Cheng University*

Rong-Guey Chang | *National Chung Cheng University*

G-Y Gou | *National Chung Cheng University*

**ACENS-0109**

**Characterizing Thermal Conductivity of Multilayer Graphene Nanocomposites**

Jia-Lin Tsai | *National Chiao Tung University*

Po-Ying Tseng | *National Chiao Tung University*

**ISFAS-0018**

**Effect of Processing Conditions on Mold Adhesion in Thermoplastic Polyurethane Injection Molding**

Jian-Yu Chen | *Feng Chia University*

Cheng-Ru He | *Feng Chia University*

Min-Shan Liu | *Feng Chia University*

**ISFAS-0028**

**Low-Temperature and Low Pressure Cu-To-Cu Direct Bonding Enabled By Highly (111)-Oriented and Nanotwinned Cu**

Chih Chen | *National Chiao Tung University*

Yi-Cheng Chu | *National Chiao Tung University*

## **Economics (1)/ Management (1)**

**Wednesday, February 07, 2018 09:00 -10:30 Room C**

Session Chair: *Prof. Gerard White*

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### **ISSSM-0015**

#### **The Other Side of the Coin: A Look at Some of the Negative Effects Caused by Quantitative Easing in the United States**

Gerard White | *Hubei University of Technology*

### **ISSSM-0044**

#### **Innovation Capacity Configuration, Innovation Requirement and Performance**

Ming-Feng Su | *National Changhua University of Education*

Shao-Hsi Chung | *Meiho University*

Kuo-Chih Cheng | *National Changhua University of Education*

### **ISSSM-0131**

#### **It's the Golden Eggs, not the Hen**

Tamir Agmon | *Gothenburg University*

Ido Kallir | *Ono College*

### **ISSSM-0139**

#### **Brand Recovery from Negative Publicity: Corporate Social Responsibility as a Second Chance**

Yuan-Shuh Lii | *Feng Chia University*

### **ISSSM-0164**

#### **Expectation on Supporting Facilities along Tourism Bike Path: Cyclists' Perspectives**

Lee Derrick | *Hong Kong Polytechnic University*

Pang, Derek | *Vocation Training Council*

Li Hin Wa, Danny | *City University of Hong Kong*

## **Communication (1)/ Education (1)/ Psychology (1)**

**Wednesday, February 07, 2018 09:00 -10:30 Room D**

Session Chair: *Prof. Chumporn Moorapun*

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### **ISSSM-0184**

**Aspects Predicting Perception of Interior Space in Thai traditional Architecture**

Chumporn Moorapun | *King Mongkut's Institute of Technology Ladkrabang*

### **ISSSM-0020**

**A Proposed Model of Communication in a Multilingual Society**

Chieko Nakabasami | *Toyo University*

### **ISSSM-0091**

**Investigation of how the Hong Kong Young Adults Construe Their Identity Through Visual Image in Social Media Platform**

Wun Han Chan | *The Open University of Hong Kong*

### **ISSSM-0115**

**A Case Study on the Applicability of Gamification on Ecological Education**

Ji Won Son | *Ewha Womans University*

Sun Young Choi | *Ewha Womans University*

Jong Woo Jung | *Ewha Womans University*

### **ISSSM-0118**

**Binge Watching as a New User Experience: - Exploring Binge's Motivations and a 'Transportability of Grandeur' on OTT Platform**

Kum Hee Jung | *Ewha Womans University*

Sun Young Choi | *Ewha Womans University*

Yun Jung Choi | *Ewha Womans University*

### **ISSSM-0169**

**Motives for Instagram Use and Topics of Interest among University Students in Taiwan**

Yi-Ting Huang | *Chung Yuan Christian University*

Sheng-Fang Su | *Chung Yuan Christian University*

# Information Engineering and Technology (1)/ Electrical and

## Electronic Engineering (1)

Wednesday, February 07, 2018    10:45-12:15    Room D

Session Chair: *Prof. Sittinan Thongsiri*

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### ACENS-0024

**Information Technology Development for Logistic Data Management of Tor Prasert Uttaradit Rice Mill Co., Ltd.**

Sittinan Thongsiri | *Rajabhat Uttaradit University*

### ACENS-0064

**Implementation of Omni-Directional Robot Based 2-DOF inverted Pendulum Control System**

Changhyeon Lee | *Inha University*

Young Sam Lee | *Inha University*

### ACENS-0066

**Implementation of the Ball and Plate Control System Using the Stewart Platform**

Hee Seung Bang | *Inha University*

Bongeon Jo | *Inha University*

Young Sam Lee | *Inha University*

### ACENS-0072

**Voltage-Mode High-Input Impedance Tunable Universal Biquadratic Filter Configuration Using DDCCTAs with Grounded Passive Component**

Hua-Pin Chen | *Ming Chi University of Technology*

Wei-Han Lai | *Ming Chi University of Technology*

Yu-Hsuan Lai | *Ming Chi University of Technology*

Yu-Nan Chen | *IBASE Technology Incorporation*

**ACENS-0078**

**Swing-Up Control of a Rotary Inverted Pendulum Considering Input/Output Constraints  
within Minimum Time**

Yunseong Oh | *Inha University*

Young Sam Lee | *Inha University*

# **Mechanical Engineering and Technology (2)/ Materials Science and Engineering (2)**

**Wednesday, February 07, 2018 13:15-14:45 Room B**

Session Chair: *Prof. Felix T.S. Chan*

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## **ACENS-0003**

### **A Three-Level Particle Swarm Optimization Algorithm Approach for Production Scheduling with Mould Maintenance Problem**

Xiaoyue Fu | *The Hong Kong Polytechnic University*

Felix T.S. Chan | *The Hong Kong Polytechnic University*

Ben Niu | *Shenzhen University*

S.H. Chung | *The Hong Kong Polytechnic University*

## **ACENS-0100**

### **Nonlinear Analysis of Smart Composite Laminates in a Thermal Environment with a Micromechanical Model**

Jung Soo Rhim | *Seoul National University*

Ji-Hwan Kim | *Seoul National University*

## **ACENS-0149**

### **Utilizing CBR Method in Parameter Planning for FDM Process of 3D Printing**

Cheng-Jung Yang | *National Pingtung University of Science and Technology*

## **ACENS-0169**

### **A Review on Tools of Maintenance Management Systems in Buildings**

Kerkrat Tangvonguthai | *Dhurakij Pundit University*

Suparatchai Vorarat | *Dhurakij Pundit University*



## **Biology/ Biological Engineering**

**Wednesday, February 07, 2018 13:15-14:45 Room C**

Session Chair: *Prof. Abhilasha Shourie*

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### **ACENS-0172**

#### **In Vitro Production and Simultaneous Extraction Optimization of High Value Flavonoids from *Glycyrrhiza Glabra* Callus**

Abhilasha Shourie | *Manav Rachna International University*

U. Vijayalakshmi | *Manav Rachna International University*

### **ACENS-0040**

#### **Set Up of a Multi-Looping Pulsed Electric Field System for Microbial Reduction in Liquid Foods**

Chaiwut Bourneow | *Mahasarakham University*

Somyod Santimalai | *Rajamangala University of Technology Tawan-Ok*

Aran H-Kittikun | *Prince of Songkla University*

Soottawat Benjakul | *Prince of Songkla University*

### **ACENS-0112**

#### **Impact of Wildlife Conservation on Rural Livelihoods in Some Protected Areas in India**

R.J. Rao | *Jiwaji University*

R.K. Lodhi | *Jiwaji University*

R.K. Gurjwar | *Jiwaji University*

Yogesh Singh | *Jiwaji University*

### **ACENS-0143**

#### **Effect of Surface Modification on the Electrochemical Corrosion Performances and Biocompatibility of Biodegradable Mg-9Al-1Zn Alloy**

Chung-Wei Yang | *National Formosa University*

Si-Han Wang | *National Formosa University*

Man-Ru Dai | *National Formosa University*

**ACENS-0151**

***In Silico* Prediction of Promiscuous Breast Cancer Resistance Protein Inhibition Using a Novel Machine Learning Scheme**

Max K. Leong | *National Dong Hwa University*

## **Education (2)/ Communication (2)/ Society (1)**

**Wednesday, February 07, 2018 13:15-14:45 Room D**

Session Chair: *Prof. David Elmes*

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### **ISSSM-0149**

#### **Coach-Player Communications: An Analysis of Top-Level Coaching Discourse at a Short-Term Ice Hockey Camp**

David Elmes | *National Institute of Fitness and Sports*

### **ISSSM-0146**

#### **Perception of DLSL College Students on Fair and Honest Methods of Philippine Journalism towards Select Media News Sources**

Chriscel Anne U. Orbeta | *De La Salle Lipa*

Daniela Abee L. Linatoc | *De La Salle Lipa*

### **ISSSM-0177**

#### **Mediating Effects of Rejection Sensitivity in the Relation between Social Skills and School Happiness among Middle School Students**

Jiyeon Shin | *Pusan National University*

Dalsaem Bae | *Pusan National University*

### **ISSSM-0203**

#### **A New Design for the Non-Electronic Touch Faucet: To Facilitate Chinese Cooking Patterns**

Ming-Shih Chen | *Tunghai University*

Yu Chou | *Tunghai University*

Joy Phang | *Tunghai University*

### **ISSSM-0205**

#### **A Research on Design Factors of the Electronic Maps and the Cases Study**

Ming-Shih Chen | *Tunghai University*

Chuen-Jie Shiu | *Tunghai University*

Ming-Lun Li | *Tunghai University*

**ISSSM-0214**

**Correlation between the Giving of Non-Material Incentives by the Leader and the Working Spirit Of Employees at the Department of Education of Solok City**

Ferdino Wedi Sanjaya | *State University of Padang*

## **Civil Engineering (1)**

**Wednesday, February 07, 2018    15:00-16:30    Room B**

Session Chair: *Prof. Yit-Jin Chen*

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### **ACENS-0099**

#### **Application of Ensemble Learning Algorithm for Ground Vibration Prediction**

Yit-Jin Chen | *Chung Yuan Christian University*

Chih-Hao Liu | *Chung Yuan Christian University*

Chi-Jane Chen | *National Taiwan Ocean University*

Chi-Jim Chen | *Carnegie-Mellon University*

### **ACENS-0161**

#### **Disaster Waste Management Countermeasure Proposals for Regional Partnership against Nankai Trough Earthquake and Tsunami Disasters**

Akifumi Kobashi | *Kansai University*

Keiichi Kitazume | *Kansai University*

### **ACENS-0177**

#### **Development of a Seismic Risk Assessment System for Hospitals in Taiwan**

Chi-Hao Lin | *National Center for Research on Earthquake Engineering*

Cheng-Tao Yang | *National Center for Research on Earthquake Engineering*

Kuo-Ching Chen | *National Taiwan University*

### **ACENS-0189**

#### **Study on the Evacuation Time of High-Rise Buildings in Thailand by Simulation Model Method**

Panit Supasiriluk | *Dhurakij Pundit University*

Aumnad Phdungsilp | *Dhurakij Pundit University*

**ACENS-0201**

**Analysis by Internal Loading Method of Locally Loaded Centrifugal Reinforced Concrete Pipe**

Kouki Ooyama | *Tottori University*

Masahiro Hyodo | *Tottori University*

Hidehiko Ogata | *Tottori University*

Masayuki Ishii | *Shimane University*

## **Aeronautics & Aerospace Engineering (1)/ Power & Energy**

### **Engineering (1)/ Environmental Engineering (1)**

**Wednesday, February 07, 2018    15:00-16:30    Room C**

Session Chair: *Prof. Felix T.S. Chan*

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#### **ACENS-0001**

##### **A Feasibility Study of Check-In System for 3-Runway Project in Hong Kong**

Felix T.S. Chan | *The Hong Kong Polytechnic University*

Y. Wu | *The Hong Kong Polytechnic University*

#### **ACENS-0070**

##### **Study on the Energy Usage in Water Treatment Plant by Sankey Diagram**

Denchai Maneenoon | *Dhurakij Pundit University*

Aumnad Phdungsilp | *Dhurakij Pundit University*

#### **ACENS-0071**

##### **Smart Indoor Environmental Quality (IEQ) Online Monitoring Mobile Unit's Architecture**

Chetnarong Kueankaeo | *Dhurakij Pundit University*

Aumnad Phdungsilp | *Dhurakij Pundit University*

Suparatchai Vorarat | *Dhurakij Pundit University*

Nattapat Areerakulkan | *Dhurakij Pundit University*

#### **ACENS-0080**

##### **Experimental Investigation of a Solar Dryer Fitted with Movable and Adjustable Solar Collector to be Adapted for Solar Drying in Kenya**

Kosgei Sam Kiptoo | *Ashikaga Institute of Technology*

Maundu Nicholas Musembi | *Ashikaga Institute of Technology*

Nakajo Yuichi | *Ashikaga Institute of Technology*

**ACENS-0157**

**The Assessment of Eco-Industrial Park in Thailand Using TOPSIS Method**

Pachachit Limwattananond | *Dhurakij Pundit University*

Natapat Areerakulkan | *Dhurakij Pundit University*



## **Education (3)/ Communication (3)/ Culture**

**Wednesday, February 07, 2018 15:00-16:30 Room D**

Session Chair: *Prof. HeeKap Lee*

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### **ISSSM-0100**

#### **Positive Pedagogy: A Curriculum for Children from Surviving to Thriving**

HeeKap Lee | *Azusa Pacific University*

Ivy Yee-Sakamoto | *Azusa Pacific University*

### **ISSSM-0101**

#### **Preferences of AB Communication Students Regarding Teaching Approaches of Communication Faculty**

Deyparine, Ma. Veronica L. | *De La Salle- Lipa*

Garcia, Ma. Janelle Maica B. | *De La Salle- Lipa*

### **ISSSM-0193**

#### **The Discourse of Time Deconstruction with Mixed Media Photography**

Chiu, Kuo-Chun | *Kun Shan University*

### **ISSSM-0196**

#### **Canned Landscape- A Case study of Children's Playground at East District in Tainan City**

Kuo I-Chin | *Kun Shan University*

### **ISSSM-0197**

#### **Cultural Governance and Case Study of Amsterdam's City branding**

Aling Lin | *Kun Shan University*

### **ISSSM-0201**

#### **Journalism Students' Motivation in Indonesia**

Nurhaya Muchtar | *Indiana University of Pennsylvania*

Ambang Priyonggo | *Universitas Multimedia Nusantara*

Albertus M. Prestianta | *Universitas Multimedia Nusantara*

**Mechanical Engineering and Technology (3)/ Materials Science  
and Engineering (3)/ Electrical and Electronic Engineering (2)**

**Thursday, February 08, 2018      09:00 -10:30      Room B**

Session Chair: *Prof. Taesung Kim*

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**ACENS-0014**

**Nanoscale Hydrodynamic Film Assisted Active Mass Transport Control for Various Microfluidic Applications**

Taesung Kim | *Ulsan National Institute of Science and Technology*

Jooyul Bae | *Ulsan National Institute of Science and Technology*

Kyoung-Young Lim | *Ulsan National Institute of Science and Technology*

**ACENS-0030**

**Synthesis of Spatial Mechanism UR-2SS for Multi-Phase Path Generation**

Wen-Yeuan Chung | *Chinese Culture University*

**ACENS-0133**

**Effects of Increasing Tool Rotational Speeds on Ductility Drop and Fracture Location Change of Friction Stir Welding of AA7075-T6 Al Alloy**

Ming-Hsiang Ku | *National Cheng Kung University*

Fei-Yi Hung | *National Cheng Kung University*

Truan-Sheng Lui | *National Cheng Kung University*

**ACENS-0195**

**Design of Quasi to Triangular Pyramid Antenna for Latex Positioning of Rubber Tree**

Chumpon Patummakason | *Valaya Alongkorn Rajabhat University*

Krissadang Sookramoon | *Valaya Alongkorn Rajabhat University*

Aucha Prosuwan | *Valaya Alongkorn Rajabhat University*

Thanaset Thosdeekoraphat | *Suranaree University Technology*

Mongkol Meeloon | *Department of Special Investigation*

## **Environmental Engineering (1)/ Aeronautics & Aerospace**

## **Engineering (2)/ Power & Energy Engineering (2)/ Earth**

## **Sciences**

**Thursday, February 08, 2018      09:00 -10:30      Room C**

Session Chair: *Prof. Byoungsoo Kim*

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### **ACENS-0165**

#### **Approximate Curvature Recovery and Grid Generation on Triangulated Surface Geometry**

Hojun Jang | *Chungnam National University*

Youngjin Kim | *Chungnam National University*

Byoungsoo Kim | *Chungnam National University*

### **ACENS-0051**

#### **Pressurization Characteristics of a Brake System with Piezoelectric-Hydraulic Pump**

Yong-Ha Hwang | *Graduate School of Korea Aerospace University*

Jai-Hyuk Hwang | *Korea Aerospace University*

### **ACENS-0062**

#### **The Study to Establish a Screening System of Emission Pollutants of Indoor Building Materials by MEMS-Sensor**

Cheng-Chen Chen | *TungFang Design University*

Meng-Han Guo | *TungFang Design University*

### **ACENS-0081**

#### **Short-Term Solar Power Forecasting Using Radial Basis Function Neural Network and Particle Swarm Optimization**

Chia-Sheng Tu | *Fuzhou Polytechnic*

Ming-Tang Tsai | *Cheng-Shiu University*

Fu-Sheng Cheng | *Cheng-Shiu University*

**ACENS-0087**

**Preliminary Roadside Magnetic Biomonitoring Results for Atmospheric Particles using  
*Cryptomeria Japonica* Tree Bark**

Kazuo Kawasaki | *University of Toyama*

Keisuke Fukushi | *Kanazawa University*

Hideo Sakai | *University of Toyama*

**ACENS-0134**

**Gaseous Pollutants Emission from Diesel Vehicles in Hong Kong**

Bei Wang | *Technological and Higher Education Institute of Hong Kong*

Yik Sze Lau | *Technological and Higher Education Institute of Hong Kong*

Kin Fai Ho | *Technological and Higher Education Institute of Hong Kong*

## **Education (4)/ Communication (4)/ Law**

**Thursday, February 08, 2018      09:00 -10:30      Room D**

Session Chair: *Prof. Chia-Yin Yu*

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### **ISSSM-0156**

#### **Adopting FaceReader to Evaluate Consumer Emotion in Recognizing Graphic Design Techniques**

Chia-Yin Yu | *Fu Jen Catholic University*

Chih-Hsiang Ko | *National Taiwan University of Science and Technology*

### **ISSSM-0055**

#### **Non-Intervention is not enough: Border Taxation and the Case for an Environmentally Activist World Trade Organisation**

Bill Butcher | *The University of New South Wales (UNSW) Sydney*

### **ISSSM-0085**

#### **Violence Against Women: Consequences of the Lack of Statutory Legislation Concerning Sexual Harassment in Indonesia and its Alternative Approaches**

Bagir Bintang Bahana | *Universitas Gadjah Mada*

Talitha Amanda Ekadhani | *Universitas Gadjah Mada*

### **ISSSM-0151**

#### **An Educational Design for Future Education**

Doojin Choi | *Pusan National University*

MingYue Liu | *Pusan National University*

Shen Yuan | *Pusan National University*

### **ISSSM-0154**

#### **Exploring the Relationships among Parental Autonomy Support, Psychological Control, Psychological Well-Being of University Students in South Korea**

Woori Kim | *Pusan National University*

YunSil Son | *Pusan National University*

JungSub Kim | *Pusan National University*

### **ISSSM-0161**

**Analysis of Students' Cognitive Structures using Free Word-Association Test in Chemistry Learning**

Norma Muningsih | *Universitas Negeri Jakarta*

# Computer Engineering/ Electrical and Electronic Engineering

## (3)/ Information Engineering and Technology (2)/ Computer

### Technologies

**Thursday, February 08, 2018      10:45-12:15      Room B**

Session Chair: *Prof. Ayub Md. Som*

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#### **ACENS-0147**

##### **Corporate Integrity Analysis via Decision Support System (DSS): Evidence from Malaysian Organisations**

Ayub Md. Som | *Universiti Teknologi MARA*

Rafidah Zainal | *Universiti Teknologi MARA*

Nafsiah Mohammed | *Universiti Teknologi MARA*

Sharif Abdulbari Ali | *Universiti Teknologi MARA*

#### **ACENS-0013**

##### **A Study of Applying Machine Vision Inspection on Face Milling Tool Wear**

Cheng-Ho Chen | *National Chin-Yi University of Technology*

Yen-Hsiang Huang | *National Chin-Yi University of Technology*

#### **ACENS-0110**

##### **Traceability Analytics and Study in Hospital Wards**

Chun-Hung Cheng | *The Chinese University of Hong Kong*

Dorbin Tobun Ng | *The Chinese University of Hong Kong*

#### **ACENS-0135**

##### **Application of Computer and Sensor Technology for Analyzing Action Sports**

Kazunari Ishida | *Hiroshima Institute of Technology*

**ACENS-0214**

**Utilization Prediction Aware Virtual Machines Consolidation Approach for Energy-Efficient Cloud Data Centers**

Sun-Yuan Hsieh | *National Cheng Kung University*

Cheng-Sheng Liu | *National Cheng Kung University*

**ISFAS-0022**

**Cryptanalysis and Improvement of an Efficient Certificateless Designated Verifier Signature Scheme**

Han-Yu Lin | *National Taiwan Ocean University*

Leo-Fan Yang | *National Taiwan Ocean University*

Chia-Hung Wu | *National Taiwan Ocean University*



## Chemistry/ Chemical Engineering/ Physics/ Applied Sciences

(2)

**Thursday, February 08, 2018      10:45-12:15      Room C**

Session Chair: *Prof. Panu Danwanichakul*

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### **ACENS-0176**

#### **Copper Nanoparticles Synthesized in Skim Natural Rubber Latex**

Thanawat Suwattanaraka | *Tokyo Institute of Technology*

Duangkamol Dechojarassri | *Kansai University*

Panu Danwanichakul | *Thammasat University*

### **ACENS-0152**

#### **Nitrene Insertion with Bimetallic Catalysts: Optimization of the Bridging Ligands**

Po-Hsiun Ho | *Chung Yuan Christian University*

Yen-Hsiang Wang | *Chung Yuan Christian University*

Chao-Chun Hung | *Chung Yuan Christian University*

Gary Jing Chuang | *Chung Yuan Christian University*

### **ACENS-0182**

#### **Measuring Uranium Concentration in Human Blood**

Ammar A. Battawy | *Tikrit University*

Abdul Karem Dahash Ali Alazawi | *Tikrit University*

### **ISFAS-0008**

#### **Incorporation of Cr with Lithium-Rich Layered Oxides for Enhanced Electrochemical Performances**

Chih-Chieh Wang | *Feng Chia University*

Yi-Chen Lin | *Feng Chia University*

Jhe-Wei Lin | *Feng Chia University*

## **Society (2)/ Education (5)/ Psychology (2)**

**Thursday, February 08, 2018      10:45-12:15      Room D**

Session Chair: *Prof. Hwee Ling Lim*

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### **ISSSM-0065**

**Perceptions of Emirati Youths and Parents on Military Career and Work Environment in National Service Context**

Hwee Ling Lim | *Khalifa University of Science & Technology*

### **ISSSM-0083**

**Case Study on Child Speech Delay at the Age of 4 Years in Kindergarten of Raudhatul Atfhal Sakinah Jakarta**

Zulvia Misykah | *State University of Jakarta*

### **ISSSM-0084**

**Case Study Analysis of Specific Learning Difficulties of Children Attention Deficit / Hyperactivity Disorder (ADHD) and Measures about It in Children 7 Years in Kindergarten Integrated Islamic City of Padang ADZKIA**

Zutri Parwines | *State University of Jakarta*

### **ISSSM-0107**

**Psychometric Evaluation of the Modified Online Cognitive Scale for Fifth Graders in Taiwan**

Ching-Yun Yu | *University of Taipei*

Tsung-Jen Chang | *University of Taipei*

### **ISSSM-0124**

**Investigation on Elderly Person's Activity Pattern and Gender Difference in Neighborhood Parks**

Li-hui Lee | *Tung-Hai University*

Hsun-Hui Wang | *Tung-Hai University*

Ming Lun Li | *Tung-Hai University*

**ISSSM-0133**

**Irrational Tendency of Social Science in Korea Academic Community: Based on Narrative**

Hyeon-Suk Kang | *Kyungpook National University*

Jang, Shin-Ae | *University of Tsukuba*

**Mechanical Engineering and Technology (4)/ Materials Science  
and Engineering (4)/Civil Engineering (2)**

**Thursday, February 08, 2018      13:15-14:45      Room B**

Session Chair: *Prof. Wen-Der Yu*

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**ACENS-0111**

**A Sustainability Evaluation Indicator System for Construction Projects**

Wen-Der Yu | *Chaoyang University of Technology*

Shao-Tsai Cheng | *Chung Hua University*

Wei-Cheng Ho | *Chung Hua University*

**ACENS-0075**

**Flow and Heat Transfer Characteristics Depending on Viscous Dissipation and Rarefaction Effect in a Microchannel**

Tae Won Kim | *Kyungpook National University*

Tae Jun Jeon | *Kyungpook National University*

Tae Seon Park | *Kyungpook National University*

**ACENS-0145**

**Observation on Heating Effect of Radiation from Indoor Wall Surface Using Diffusive Enclosure Model: Application of Analysis Model of Radiation in Dispersive Materials**

Muhd Azi Bin Che Seliman | *University of Toyama*

Amirul Azhar Bin Abdul Monir | *University of Toyama*

Yoshio Hirasawa | *University of Toyama*

## **Economics (2)/ Management (2)**

**Thursday, February 08, 2018      13:15-14:45      Room C**

Session Chair: *Prof. Keith H. Sakuda*

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### **ISSSM-0180**

**Twenty Years of “The Path”: A Retrospective Contemplation of Kaku’s *Kyosei***

Keith H. Sakuda | *University of Hawaii West Oahu*

### **ISSSM-0012**

**Online Consumer Evaluation of Copycat Brands: Attributing Featured and Perceived Similarity**

Shun-Chuan Chang | *Mackay Medical College*

### **ISSSM-0150**

**The Location of a Risk-Averse Firm in a Barbell Model**

Shih-Jye Wu | *National Sun Yat-Sen University*

### **ISSSM-0165**

**Two Phase Approach for Efficient Topic Modeling**

Hochang Choi | *Kookmin University*

William Xiu Shun Wong | *Kookmin University*

Yoonjin Hyun | *Kookmin University*

Eunjung Ko | *Kookmin University*

Kee-Young Kwahk | *Graduate School of Business IT, Kookmin University*

Namgyu Kim | *Kookmin University*

### **ISSSM-0202**

**A New Look at the Research Stream on *Kaizen* Management**

Huaxing Shang | *Yokohama National University*

## **Education (6)/ Society (3)/ Psychology (3)/ Communication (5)**

**Thursday, February 08, 2018      13:15-14:45      Room D**

Session Chair: *Prof. Min-Ju Tsai*

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### **ISSSM-0003**

**Investigating Emotional Teaching Practice of Preschool Educators in Tainan City, Taiwan**

Min-Ju Tsai | *National University of Tainan*

### **ISSSM-0023**

**Confidence Level of DLSL College Students on the Use of English Language during Class Participation**

Frances Ann Marie Gumapac | *De La Salle Lipa*

Marisol Anthonette Tuzon | *De La Salle Lipa*

### **ISSSM-0090**

**The Conflict of Labor at the Plantation Company of Pengajaran in 1930's Until 1940's in Jombang Indonesia**

Siti Muslihatul Mukaromah | *Universitas Gadjah Mada*

### **ISSSM-0109**

**Art and Design Learning Activity for Fostering Creativity by Using Social Media**

Roongrot Ratanapichetkul | *King Mongkut's Institute of Technology Ladkrabang*

Kasemrut Wiwitkunkasem | *King Mongkut's Institute of Technology Ladkrabang*

### **ISSSM-0129**

**Development of Information System of Employees Information Faculty of Techniques of Web-Based Makassar State University**

Muldiyana Hajrahmad | *State University of Jakarta*

### **ISSSM-0200**

**Marital Processes Linking Economic Hardship to Mental Health: The Role of Neurotic Vulnerability**

Kandauda Wickrama | *University of Georgia*

## **Information Engineering and Technology (3)/ Electrical and**

### **Electronic Engineering (4)**

**Thursday, February 08, 2018      15:00-16:30      Room B**

Session Chair: *Prof. Worapong Pairindra*

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#### **ACENS-0032**

**The Equalisation Technique for Five-Level Diode-Clamped Multilevel Converter with Contactless Power Transfer in DC Microgrid System**

Worapong Pairindra | *Valaya Alongkorn Rajabhat University*

#### **ACENS-0103**

**Study on Dehydration by Using Microwave**

Tanaporn Payommai | *Valaya Alongkorn Rajabhat University under the Royal Patronage*

#### **ACENS-0136**

**Study on Load Sensing Method by Speed of PMSM**

Donghoon Ban | *Daegu Gyeongbuk Institute of Science & Technology*

Sungho Jin | *Daegu Gyeongbuk Institute of Science & Technology*

Changhee Yoo | *Sangsin Brake Co. Ltd*

Seongwook Ju | *Sangsin Brake Co. Ltd*

#### **ACENS-0141**

**A Fast Multi-Frame Selection Algorithm for H.265 Video Coding**

Jung-Yang Kao | *I-Shou University*

Hung-Ming Hung | *I-Shou University*

Chou-Chen Wang | *I-Shou University*

#### **ACENS-0142**

**Real-Time H.264 High Definition Video Encoder Based on Multicore ADSP-BF609**

Hsiang-Chun Wang | *I-Shou University*

Bo-Ting Yeh | *I-Shou University*

Chou-Chen Wang | *I-Shou University*

## **Management (3)/ Economics (3)/ Finance**

**Thursday, February 08, 2018      15:00-16:30      Room C**

Session Chair: *Prof. Yuan-Ho Hsu*

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### **ISSSM-0185**

#### **Population Aging, National Saving, and Economic Growth**

Yuan-Ho Hsu | *National Cheng Kung University*

### **ISSSM-0075**

#### **The Relationships among Workplace Support, Work-to-Leisure Facilitation, and Job Satisfaction**

Ying-Wen Liang | *Jinwen University of Science and Technology*

### **ISSSM-0121**

#### **The Effect of Educational Mismatches on Wage, Job Satisfaction and On-The-Job Search in Developing Country**

Rahmi Budhy Fatmasari | *GadjahMada University*

Indanazulfa Qurrota A'yun | *GadjahMada University*

Randi Kurniawanc | *GadjahMada University*

### **ISSSM-0171**

#### **Role of Socioeconomic Status (SES) in Academic Performance and Labor Market Outcomes**

Eric S. Lin | *National Tsing Hua University*

Shih-Yung Chiu | *National Tsing Hua University*

### **ISSSM-0187**

#### **Liquidity Risk and Informed Trading in Option Markets**

Shih-Ping Feng | *Feng Chia University*

Bi-Juan Chang | *National Taiwan University*



## **Education (7)/ Communication (6)/ Society (4)**

**Thursday, February 08, 2018      15:00-16:30      Room D**

Session Chair: *Prof. Meng-Cong Zheng*

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### **ISSSM-0078**

#### **Signage System to Facilitate Book Search in a University Library**

Meng-Cong Zheng | *National Taipei University of Technology*

### **ISSSM-0010**

#### **Functions of Modifiers in English-Medium Oral Defenses in Taiwan Universities**

Chia-Yen Lin | *Yuan Ze University*

### **ISSSM-0117**

#### **A Research on the Integrated Transport Services to Hospital for the Elderly**

Ming-Shih Chen | *Tunghai University*

Yi-Ran Chen | *Tunghai University*

Yu-Ting Chen | *Tunghai University*

### **ISSSM-0128**

#### **Character Building through Growing Spiritual Values Based on Qur'an Surah (Q.S)**

#### **Al-Muzammil Verses 1-8**

Maya Mariah Zakiyah | *State University of Jakarta*

### **ISSSM-0204**

#### **M E D I A: The Mnemonic Model Development of Business Communication Teaching Materials for Foreign Domestic Workers Studying in Multimedia Nusantara University**

Niknik Mediyawati | *Multimedia Nusantara Universitas*

Emzir | *Jakarta State University*

Ninuk Lustyantie | *Jakarta State University*

## *Poster Sessions (1)*

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**Electrical and Electronic Engineering (1)/ Applied Sciences (1)/**

**Computer Engineering/ Environmental Engineering (1)/ Green**

**Technology/ Information Engineering and Technology/ Power**

**& Energy Engineering**

**Wednesday, February 07, 2018 13:30-14:20 Room A**

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**ACENS-0044**

**Silver Aluminum Electrodes Used in Zinc Oxide Resistive Memory Devices**

Hsin-Chiang You | *National Chin-Yi University of Technology*

Cheng-Yen Wu | *National Chin-Yi University of Technology*

Yu-Hsien Lin | *National United University*

**ACENS-0047**

**Simple Robust Stability Laws of Discrete Interval Time-Delay Systems**

Chien-Hua Lee | *Cheng-Shiu University*

**ACENS-0049**

**Fabrication of AlGaAs/InGaAs Enhancement/Depletion-Mode High Electron Mobility Transistors**

Jung-Hui Tsai | *National Kaohsiung Normal University*

Pao-Sheng Lin | *National Kaohsiung Normal University*

Wen-Chau Liu | *National Cheng-Kung University*

#### **ACENS-0050**

##### **The Optimal Energy Dispatch of a Cogeneration System**

Whei-Min Lin | *Sun Yat-Sen University*

Chung-Yuen Yang | *Sun Yat-Sen University*

Ming-Tang Tsai | *Cheng-Shiu University*

Chin-Tien Shu | *Cheng-Shiu University*

Chih-Jung Huang | *Cheng-Shiu University*

#### **ACENS-0084**

##### **Analysis of Grounding Resistance Effected Back flashover to Catenary Contact Systems**

Kokiat Aodsup | *Rajamangala University of Technology Lanna*

Thanatchai Kulworawanichpong | *Suranaree University of Technology*

#### **ACENS-0107**

##### **Dual Inductor Based Bidirectional Dc-to-Dc Converter to Increase Life-Cycle of Battery in Electric Vehicles**

Sung Chan Yeo | *Dept. of Control and Instrumentation Engineering, Hanbat National University, Korea*

Byoung-Hee Lee | *Dept. of Electronics and Control Engineering, Hanbat National University, Korea*

Feel-Soon Kang | *Dept. of Electronics and Control Engineering, Hanbat National University, Korea*

#### **ACENS-0122**

##### **Set of Controlling to Turn on Turn off Electrical Equipment Insides the House through Audio Signal on Raspberry Pi Board**

Jeeraphon Sonkong | *Rajamangala University of Technology LANNA TAK*

Thatchapong Tunkam | *Rajamangala University of Technology LANNA TAK*

Ekkalak Sumonphan | *Rajamangala University of Technology LANNA TAK*

#### **ACENS-0126**

##### **An Improved Control Structure for a Grid-Connected Inverter with LCL Filter to Operate in Seamless Transfer Mode under Distorted Grid Conditions**

Ngoc-Bao Lai | *Seoul National University of Science and Technology*

Kyeong-Hwa Kim | *Seoul National University of Science and Technology*

**ACENS-0144**

**Effect of Membrane Electrode Assemblies on Fuel Cell Performance**

Chang-Yu Hsieh | *National Chung Cheng University*

Yong-Song Chen | *National Chung Cheng University*

**ACENS-0184**

**Performance and Reliability Improvement of MEMS-Based Piezo-Resistive Micro Pressure Sensor by Using a Temperature Compensation Calibration Process**

Chien-Wei Liu | *National Yunlin University of Science and Technology*

Guan-Jhong Huang | *National Yunlin University of Science and Technology*

I-Chan Chiu | *National Yunlin University of Science and Technology*

**ISFAS-0011**

**Doping Effect on Characteristics and Reliability in High Voltage MOSFETs**

Jone F. Chen | *National Cheng Kung University*

Wei Hung Tsai | *National Cheng Kung University*

**ISFAS-0025**

**An Attempt to Use Arc Ion Plated Diamond-Like Carbon on Fabrics for EAOP**

Chang-Hsuan Tseng | *Feng Chia University*

Jiann-Long Chen | *Feng Chia University*

Chih-Chao Wu | *Feng Chia University*

Ying-Hung Chen | *Feng Chia University*

Kuo-Bing Cheng | *Feng Chia University*

Ju-Liang He | *Feng Chia University*

**ACENS-0007**

**Image Dehazing Based on Depth Cues**

Yu-Chen Wu | *National Chiao Tung University*

Chin-Chen Chang | *National United University*

Zen-Chung Shih | *National Chiao Tung University*

**ACENS-0052**

**The Composition of Biological Aerosols in Different Type Indoor Environments via Next Generation Sequencing**

Wei-Kuang Wang | *Feng Chia University*

Ying-Chih Lin | *Feng Chia University*

Tai-Lee Hu | *Feng Chia University*

Chih-Chao Wu | *Feng Chia University*

**ISFAS-0013**

**The Efficiency Analysis of Solar PV/Thermal Hybrid System between Storage-Type and Separation-Type**

Feng-Chin Tsai | *Tungnan University*

Feng-Rong Xu | *Tungnan University*

**ISFAS-0014**

**Irreversibility Analysis of Zeotropic Mixture as Working Fluids in Transcritical Organic Rankine Cycle**

Jui-Ching Hsieh | *National Chin-Yi University of Technology*

David T.W. Lin | *National University of Tainan*

Yu-Cheng Liao | *National University of Tainan*

**ACENS-0015**

**Integration of Physical Context on Personal Identification via Smartphone**

Hyo-Joong Suh | *The Catholic University of Korea*

**ACENS-0101**

**Applied Hybrid PSO-BPNN for the Optimal Heat Load Design of a Refrigerating Chamber**

Ming-Tang Tsai | *Cheng-Shiu University*

Shyan-Tzong Guo | *Cheng-Shiu University*

Pei-Yu Li | *Cheng-Shiu University*

**ACENS-0127**

**Flow Field Simulation and Optimization for an All-Vanadium Redox Flow Battery**

Fu-Hsiang Hsu | *National Chung Cheng University*

Han-Wen Chou | *Atomic Energy Council*

Sze-Yuan Ho | *Atomic Energy Council*

Yong-Song Chen | *National Chung Cheng University*

**Chemistry/ Chemical Engineering/ Applied Sciences (2)/ Earth  
Sciences / Aeronautics & Aerospace Engineering**

**Wednesday, February 07, 2018 14:30-15:20 Room A**

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**ACENS-0073**

**Synthesis and Biological Evaluation of BODIPY Analogs as Substrates of Aldehyde  
Dehydrogenase**

Kyul Kim | *Korea University*

Jin Won Park | *Samsung Medical Center*

Sang-Hyun Son | *Korea University*

Kyung-Han Lee | *Samsung Medical Center*

Youngjoo Byun | *Korea University*

**ACENS-0108**

**Design and Synthesis of Berberine Derivatives as PMK Inhibitors in Cholesterol  
Biosynthesis**

Methachanun Jaitrong | *Srinakharinwirot University*

Siritron Samosorn | *Srinakharinwirot University*

Pronthip Boonsri | *Srinakharinwirot University*

Patamapan Thamvapee | *Srinakharinwirot University*

Ramida Watanapokasin | *Srinakharinwirot University*

Somma Pivsa-Art | *Rajamangala University of Technology Thanyaburi*

**ACENS-0155**

**Enantioselective Synthesis of Thiabicyclo[3.1.0]hexene Dioxides via Intramolecular  
Cyclopropanation of  $\alpha$ -Diazo Dienyl Sulfones**

Manato Kotozaki | *Toyohashi University of Technology*

Soda Chanthamath | *Toyohashi University of Technology*

Kazutaka Shibatomi | *Toyohashi University of Technology*

Seiji Iwasa | *Toyohashi University of Technology*

#### **ACENS-0194**

##### **An Overview of Plant-Based Surfactants**

Hairul Amani Abdul Hamid | *Universiti Teknologi MARA*

Azani Saleh | *Universiti Teknologi MARA*

Norizan Ahmat | *Universiti Teknologi MARA*

#### **ACENS-0023**

##### **Skin-Whitening Activity of 3'-Hydroxydaidzin and 3'-Hydroxygenistin**

Te-Sheng Chang | *National University of Tainan*

Dong-Sheng Wang | *National University of Tainan*

#### **ACENS-0114**

##### **A Simulated Cooling System of Nuclear Reactor for the Study of the Inhibition Effect of Zinc (II) on Corrosion in Stainless Steel**

Suppamat Makjan | *Srinakharinwirot University*

Pornthip Boonsri | *Srinakharinwirot University*

Kotchaphan Kanjana | *Thailand Institute of Nuclear Technology (Public Organization)*

Jatechan Channuie | *Thailand Institute of Nuclear Technology (Public Organization)*

#### **ACENS-0159**

##### **Application of Natural Dolomite Rock for Biofuel Production with a Microwave Heating System**

Achanai Buasri | *Silpakorn University*

Vorrada Loryuenyong | *Silpakorn University*

#### **ACENS-0160**

##### **Utilization of Waste Stone as a Novel Catalyst in Biofuel Production**

Vorrada Loryuenyong | *Silpakorn University*

Achanai Buasri | *Silpakorn University*

#### **ACENS-0175**

##### **Absorption of CO<sub>2</sub> by Highly Concentrated Alkanolamine Solutions in a Rotating Packed Bed**

Hsing-Ju Ma | *Chung Yuan University*

Yu-Shao Chen | *Chung Yuan University*

**ACENS-0225**

**Isobaric Vapor-Liquid Equilibria and Deviation in Viscosity for Binary Monocarboxylic Acid Mixture Systems**

Ji-Eun Gu | *Chungnam National University*

So-Jin Park | *Chungnam National University*

**ISFAS-0003**

**Characterization of Chitooligosaccharides (COS) and Chitosan Extracted from shrimp Shell Wastes for Food Application**

Numfon Rakkhumkaew | *Srinakarinwirot University*

Chalanan Pengsuk | *Srinakarinwirot University*

**ISFAS-0004**

**Simultaneous Determination of Four Alkyl Hydroxy Benzoates by Microanalysis Method in Commercial Products**

Chen-Wen Chen | *Kaohsiung Medical University*

Wen-Chan Hsu | *Kaohsiung Medical University*

Ya-Chen Lu | *Kaohsiung Medical University*

Chia-Hsien Feng | *Kaohsiung Medical University*

**ISFAS-0005**

**Monitoring of Bactericidal Agents in Skin Care Products by Fast Method**

Yi-Hsuan Lee | *Kaohsiung Medical University*

Chi-Yu Lu | *Kaohsiung Medical University*

**ISFAS-0009**

**A Study of Gesture Recognition based on CNN**

Jen-Yang Chen | *Ming Chuan University*

Sheng-Cheng Yeh | *Ming Chuan University*

Shih-Yu Huang | *Ming Chuan University*

Chaur-Heh Hsieh | *Ming Chuan University*

Yi-Kai Chiu | *Ming Chuan University*



**ISFAS-0010**

**Deep Learning Algorithms for Human Emotion Recognition Using Facial Expression**

Sheng-Cheng Yeh | *Ming Chuan University*

Jen-Yang Chen | *Ming Chuan University*

Shih-Yu Huang | *Ming Chuan University*

Chaur-Heh Hsieh | *Ming Chuan University*

Zhao Cheng Lai | *Ming Chuan University*

**ISFAS-0021**

**Removal of Methylene Blue from Aqueous Solution Using *Garcinia Mangostana* L. Peels**

Chanadda Phawachalotorn | *King Mongkut's Institute of Technology Ladkrabang*

**ACENS-0168**

**Stress Response to Cold Shock Water Temperature of Abalone, *Haliotis Discus Hannai***

Byung Sun Chin | *Anyang University*

**ACENS-0139**

**Dynamic Modeling and Simulation of Quad-Tilt-Prop UAV**

Jinseok Jeong | *Pusan National University in Busan, KOREA*

Minshik Roh | *Pusan National University in Busan, KOREA*

Beomsoo Kang | *Pusan National University in Busan, KOREA*

**ACENS-0153**

**Microplasma Discharge and Flexible Microplasma Thruster with and without Iodine Propellant**

Gyu Tae Bae | *Kyungpook National University*

Dong Ha Kim | *Kyungpook National University*

Daseulbi Kim | *Kyungpook National University*

Won Hyun Kim | *Kyungpook National University*

Bhum Jae Shin | *Sejong University*

Heung-Sik Tae | *Kyungpook National University*

Choon-Sang Park | *Kyungpook National University*

**ACENS-0173**

**Flight Dynamic Modeling and Controller Design for Quad Plane**

HyungKyu, Cha | *Pusan National University in Busan, KOREA*

Minshik Roh | *Pusan National University in Busan, KOREA*

Jinseok Jeong | *Pusan National University in Busan, KOREA*

Beomsoo Kang | *Pusan National University in Busan, KOREA*

**Management/ Education (1)/ Finance/ Society**

**Wednesday, February 07, 2018 15:30-16:20 Room A**

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**ISSSM-0016**

**Promoting Lifestyle of Health and Sustainability with Product Design using Persuasive Technology and Gamification Techniques**

Li-Hsing Shih | *National Cheng Kung University*

Jeng-Jay Chang | *National Cheng Kung University*

**ISSSM-0036**

**Stereotypes Relating to Information and Communications Technology (ICT) Jobs among College Students Majoring in Information Management**

Ying-Wei Shih | *National Changhua University of Education*

Meng-Hsu Hsu | *National Chung Hsing University*

**ISSSM-0050**

**The Role of Customer Participation in Service Process of Medical Cosmetic Surgery**

Chih-Jou Chen | *National Penghu University of Science and Technology*

Hui-Lan Wu | *National Penghu University of Science and Technology*

**ISSSM-0051**

**Corporate Social Responsibility and Operational Performance: The Case of Taiwan CSR Companies**

Keng Shen Chen | *Lunghwa University of Science and Technology*

Mei Yu Hsu | *Chien Hsin University of Science and Technology*

**ISSSM-0062**

**A Preliminary Study on Evaluation of the Skill-Mixed Model**

Ya-Fen Lee | *St Martin De Porres Hospital*

Che-Chun Chen | *St Martin De Porres Hospital*

Ya-Yi Chang | *St Martin De Porres Hospital*

Li-Chin Yu | *St Martin De Porres Hospital*

**ISSSM-0068**

**A Study of Perceived Risk, Personality Trait and Social Media's Influence on Experience Value and Satisfaction –An Example on Water Adventure Recreational Activities in Eastern Taiwan**

Wen-Cheng Chu | *National Dong Hwa University*

Yi-Ting Chu | *Shin Hsin University*

Chen-Hsiung Chou | *Taiwan Hospitality and Tourism University*

Shun-Yi Chen | *Chinese Culture University*

Yi-Chi Chu | *University of Taipei*

Shu-Hui Chang | *National Dong Hwa University*

**ISSSM-0095**

**The Impact of Team Knowledge Ambidexterity on Software Process Tailoring Performance: A Preliminary Study**

Jungchieh Lee | *Beijing Normal University Zhuhai*

Liangnan Xiong | *Beijing Normal University Zhuhai*

Keqi Xiao | *Beijing Normal University Zhuhai*

**ISSSM-0096**

**An Exploration of the Long-term Care Service Needs of the Elderly People in Taiwan**

Kenneth Hsiche Wang | *Lunghwa University of Science and Technology*

**ISSSM-0099**

**The Influence of Brand Image and Brand Trust on Brand Loyalty in Sporting Shoes**

Po-Chun Chen | *National Yunlin University of Science and Technology*

Hui-Chen Lee | *National Yunlin University of Science and Technology*

**ISSSM-0174**

**Exploring Consumers' Willingness to Pay for Participation in Social Enterprises To Promote Food and Agricultural Activities: A Case of University Students**

Chung-Te Ting | *Chang Jung Christian University*

Yu-Sheng Huang | *Chang Jung Christian University*

Szu-Chin Pan | *Chang Jung Christian University*

Jen-Feng Kuo | *Chang Jung Christian University*

**ISSSM-0176**

**Evaluating the Change of Consumer Demand for Social Enterprise Participation on Agricultural Food Locally**

Yu-Sheng Huang | *Chang Jung Christian University*

Szu-Chin Pan | *Chang Jung Christian University*

Chung-Te Ting | *Chang Jung Christian University*

Cheng-Te Lin | *Kang Ning University*

**ISSSM-0182**

**Applying the Technology Acceptance Model (TAM) to Online Behaviors Take an Example of Buying Healthy Food in Middle-Aged People**

Rachung Yu | *Ching Kuo Institute of Management and Health*

Fang-Ting Huang | *Ching Kuo Institute of Management and Health*

**ISSSM-0102**

**A Study of the Non-Profit Preschool Curriculum Leadership Practice on Thematic Curriculum in Taiwan**

Chia-Chang Hsu | *Hsin Sheng Junior College of Medical Care and Management*

Yu-Chuan, Chang | *Cardinal Tien Junior College of Healthcare and Management*

**ISSSM-0183**

**The Effects of Parenting Styles and Future Time Perspective on Academic Procrastination of High School Students in South Korea**

SangJae Ha | *Pusan National University*

JungSub Kim | *Pusan National University*

**ISSSM-0186**

**The Effects of Perfectionism and Academic Resilience on Academic Burnout of High School Students in South Korea**

Ji-Hye Jung | *Pusan National University*

Ja-Eun Min | *Pusan National University*

Jung-Sub Kim | *Pusan National University*

**ISSSM-0018**

**The Top Management Team and Investment Decisions**

Chih-Wei Peng | *National Changhua University of Education*

**ISSSM-0170**

**Financial Performance Diagnosis of Banking Holding Companies in Taiwan by Using DANP-V Model**

Arthur Jin Lin | *National Taipei University*

Wei-Chun Yu | *National Taipei University*

**ISSSM-0040**

**Developing the Family Indicators of Friendly Environment for Children in Taiwan**

Ching-Chiau Kuo | *Chang Gung University*

Lin-Ju Kang | *Chang Gung Memorial Hospital*

Ai-Wen Hwang | *Chang Gung Memorial Hospital*

Shih-Ting Chiao | *Chang Gung University*

Child FEMI Research Team | *Chang Gung University*

**ISSSM-0190**

**A Study on the Intention of Volunteers Invest in Aging Care Service - A Case Study of Women's Service Center**

Chiu Lan Ssu | *Mackay Junior College of Medicine, Nursing, and Management*

## *Poster Sessions (4)*

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**Civil Engineering/ Industrial and Manufacturing Technologies/**

**Mechanical Engineering and Technology/ Physics/**

**Transportation/ Electrical and Electronic Engineering (2)**

**Thursday, February 08, 2018      10:00-10:50      Room A**

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**ACENS-0006**

**The Influence of Rail Corrugation on Track Vibration**

Chen-Ming Kuo | *National Cheng Kung University*

Chih-Chiang Lin | *National Cheng Kung University*

**ACENS-0016**

**Research on the Application of Home-Made Fly-Ash Based Zeolite in Ventilation Equipment**

Jen-Hao Chi | *Wu Feng University*

Yi-Hao Huang | *National Chin-Yi University of Technology*

Sheng-Hung Wu | *Occupational Safety and Hygiene Worker of Labor Union Location in Yunlin County*

**ACENS-0076**

**Public Junior High School Foundation and Reorganization by Municipal Merger in the Showa Period in Shimane Prefecture**

Hideomi Sasaki | *Yamaguchi University*

Tomohisa Hosoda | *Yonago College*

Akira Ushijima | *Yamaguchi University*

Mahito Nakazono | *Yamaguchi University*

**ACENS-0077**

**Transition of the Number of Junior High Schools and Pupils in Chugoku Region**

Tomoya Toyota | *Yamaguchi University*

Moeko Shiota | *Yamaguchi University*

Mahito Nakazono | *Yamaguchi University*

Akira Ushijima | *Yamaguchi University*

Tomohisa Hosoda | *Yonago College*

**ACENS-0193**

**Beach Erosion Monitoring Results in East Coast Region, South Korea**

Inho Kim | *Kangwon National University*

Dongseob Song | *Kangwon National University*

**ISFAS-0002**

**Enhancing Physical Properties of Epoxy Mortar Floor Top Coating by Using Experimental Design**

Ming-Hsien Caleb Li | *Feng Chia University*

Chao-Hsiung Benjamin Yeh | *Feng Chia University*

Hsiu-Wei Kuo | *Feng Chia University*

Abbas Al-Refaie | *University of Jordan*

**ACENS-0011**

**Undercutting Condition of Helical Gear with a Stepped Triple Circular-Arc Tooth**

Shiau-Shuen Shie | *National of Tung-Shih Senior High School*

Hsueh-Cheng Yang | *National Changhua University of Education*

**ACENS-0033**

**External Inductive Coil Module for Injection Mold Heating**

Ming-Shyan Huang | *National Kaohsiung First University of Science and Technology*

Shih-Chih Nian | *National Taitung Junior College*

**ACENS-0056**

**The Performance of a Direct Borohydride/Peroxide Fuel Cell with Different Diffusion Layer Properties**

Yi Hsuan Hsu | *National Chung Cheng University*

Yong Song Chen | *National Chung Cheng University*



**ACENS-0063**

**Development and Validation of Control Algorithm for an Autonomous Vehicle Based on Simulation**

Hao Liu | *Keimyung University*

Jae-Cheon Lee | *Keimyung University*

**ACENS-0079**

**A Preliminary Discussion on the Control Strategy of Hybrid Ventilation Considering Climate Change**

Nien-Tsu Chen | *TungFang Design University*

Shih-Yang Hong | *TungFang Design University*

Ying-Sheng Chen | *TungFang Design University*

**ACENS-0129**

**Predicting Heat Generation of a Ball Screw Drive System**

Ting Kang Chang | *National Chung Cheng University*

Yong-Song Chen | *National Chung Cheng University*

**ACENS-0130**

**Experimental Study on the Effect of Chip Heat on the Heat Transfer in a Ball Screw Drive System**

Chia-Wei Li | *National Chung Cheng University*

Yong-Song Chen | *National Chung Cheng University*

**ACENS-0131**

**Statistical Approach on Process Parameters of a Lap Grinding Process for Sapphire Substrate**

Taekyoung Kim | *Tongmyong University*

Junyoung Seo | *Tongmyong University*

Hyunseop Lee | *Tongmyong University*

**ACENS-0190**

**Experimental Characterization of Laminar Forced Convection of Water-Based Nano-Emulsion of Tricosane**

C. J. Ho | *National Cheng Kung University*

Shun-Ren Jheng | *National Cheng Kung University*

**ACENS-0038****Use of Novel Multiple-Fiber-Ring Scheme for Stable Single-Frequency Erbium Fiber Laser**

C. S. Gu | *Feng Chia University*

B. S. Guo | *Feng Chia University*

Y. J. Chang | *Feng Chia University*

M. J. Chen | *Feng Chia University*

Z. Q. Yang | *Feng Chia University*

T. J. Huang | *Feng Chia University*

Chien-Hung Yeh | *Feng Chia University*

C. W. Chow | *National Chiao Tung University*

J. H. Chen | *Feng Chia University*

**ISFAS-0006****A Study of the High-Speed Rail Passengers' Willingness to Pay for Stopping Patterns in Taiwan**

Chung Wei Kuo | *Aletheia University*

**ISFAS-0020****Combinatorial Optimization Problem for Individual Visitors Booking Flight and Hotel**

Chun-Ying Chen | *Kainan University*

Chia-Shin Lin | *Kainan University*

Wen-Chun Tsai | *Kainan University*

**ACENS-0121****Phase Locked Loop Technique using All Pass Filter for Single Phase PV Inverter**

Byunggyu Yu | *Kongju National University*

Geun Bum Koo | *Kongju National University*

Bong Seok Park | *Kongju National University*

Bangwon Seo | *Kongju National University*

Seung-Mook Baek | *Kongju National University*

Chang-Ho Hyun | *Kongju National University*

**Materials Science and Engineering (1)/ Biological Engineering**

**(1)/ Electrical and Electronic Engineering (3)**

**Thursday, February 08, 2018      11:00-12:00      Room A**

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**ACENS-0010**

**Fabrication and Characterization of Yttria-Stabilized Zirconia Using Negative Thermo-Responsive Hydrogel for Dental Prosthesis**

Kuo-Lung Tung | *Kaohsiung Medical University*

Li-Cheng Pan | *Kaohsiung Medical University*

Yan-Hsiung Wang | *Kaohsiung Medical University*

Chao-Tang Chuang | *Kaohsiung Medical University*

Chih-Kuang Wang | *Kaohsiung Medical University*

**ACENS-0043**

**Electrical and Humidity-Sensing Properties of a Composite Material of RGO and CeO<sub>2</sub> that was Fabricated by One-Pot Technique**

Ching-Hsuan Wei | *Chinese Culture University*

Hong-Ci Syu | *Chinese Culture University*

Chun-Fu Chang | *Chinese Culture University*

Lu-Yin Lin | *National Taipei University of Technology*

Pi-Guey Su | *Chinese Culture University*

**ACENS-0067**

**Production of STEM Educational Materials Leading to Estimation of Semiconductor Energy Gap**

Kenji Yamada | *National Institute of Technology, Ishikawa-College*

Scholastica Dumat | *National Institute of Technology, Ishikawa-College*

Hirofumi Takikawa | *Toyohashi University of Technology*

**ACENS-0068**

**Phase Transitions, Piezoelectric Properties and Energy Storage in  
92.5%(Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub>-7.5%BaTiO<sub>3</sub> Crystals Co-Doped with ZrO<sub>2</sub> and MnO<sub>2</sub> Additives**

Cheng-Sao Chen | *Hwa Hsia University of Technology*

Pin-Yi Chen | *Ming Chi University of Technology*

Chi-Shun Tu | *Fu Jen Catholic University*

Yi-Ping Syu | *Ming Chi University of Technology*

**ACENS-0082**

**The Giant Strain Response Mechanism in Textured Mn-Modified  
0.925(Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub>-0.075BaTiO<sub>3</sub> Relaxor Ferroelectric Ceramics**

Pin-Yi Chen | *Ming-Chi University of Technology*

Cheng-Sao Chen | *Hwa-Hsia University of Technology*

Chi-Shun Tu | *Fu Jen Catholic University*

Ya-Syuan Wu | *Ming-Chi University of Technology*

**ACENS-0085**

**High Temperature Oxidation of Fe-12%Cr-(13-15)%Cu-4%Mn-0.3%C Composite Steels**

Dong Bok Lee | *Sungkyunkwan University*

Min Jung Kim | *Sungkyunkwan University*

**ACENS-0090**

**Study of MgTiTa<sub>2</sub>O<sub>8</sub> Dielectric Thin Films by Sol-Gel Method**

Cheng-Hsien Yeh | *National United University*

Chia-Peng Kao | *National United University*

Cheng-Hsing Hsu | *National United University*

**ACENS-0091**

**Study of ZnTa<sub>2</sub>O<sub>6</sub> Dielectric Thin Films by Rf Magnetron Sputtering**

Lei Kuo | *National United University*

Ching-Hsiang Wang | *National United University*

Ching-Fang Tseng | *National United University*

**ACENS-0092**

**Dielectric Characteristics of Li<sub>2</sub>(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub> Ceramics at Microwave Frequency**

Chia-Cheng Hung | *National United University*

Cheng-Hsing Hsu | *National United University*

**ACENS-0098**

**Microwave Characteristics of MgTiTa<sub>2</sub>O<sub>8</sub> Dielectric Resonators**

Po-An Chen | *National United University*

Li-Xiang Lin | *National United University*

Cheng-Hsing Hsu | *National United University*

**ACENS-0117**

**YAG: Ce<sup>3+</sup> Fluorescent Material Production and Performance Analysis**

Ya-Wei Lee | *National Defense University*

Jui-Jung Liu | *Kainan University*

Szu-Hsien Wu | *National Defense University*

Jau-Nan Yeh | *National Defense University*

**ACENS-0148**

**Study on Cesium Lead Mixed-Halide Perovskites for Efficient and Stable Solar Cells**

Jae Keun Nam | *Yonsei University*

Jiwon Kim | *Yonsei University*

Jong Hyeok Park | *Yonsei University*

**ACENS-0150**

**Design and Manufacture of a Three-Dimensional Auxetic Structure Based on the Two-Dimensional Sinusoidal Waveform Grid**

Kim V. Peña | *Ateneo de Manila University*

Benjamin O. Chan | *Ateneo de Manila University*

**ACENS-0171**

**Photoelectrochemical Performance of Cuprous Oxide Thin Film/Cupric Oxide Nanorods Hybrid Photocathode for Sunlight-Driven Water Splitting**

Byeongkuk Min | *Chungnam National University*

Hyojin Kim | *Chungnam National University*

Soon-Ku Hong | *Chungnam National University*

#### **ACENS-0202**

##### **An Easy Method to Fabricate Superoleophobic Surface with Mountain-Valley Structure**

Jonghyeon Jeong | *Pohang University of Science and Technology*

Zhan Li | *China Academy of Machinery Manufactureing Technology*

D. Weixiao | *China Academy of Machinery Manufactureing Technology*

D. Baozhen | *China Academy of Machinery Manufactureing Technology*

L. Guojie | *China Academy of Machinery Manufactureing Technology*

Woonbong Hwang | *Pohang University of Science and Technology*

#### **ACENS-0002**

##### **Robotic-Assisted Gait Training in Individuals with Stroke**

Chien-Hung Lai | *Taipei Medical University Hospital*

Chih-Wei Peng | *Taipei Medical University Hospital*

Jiunn-Horng Kang | *Taipei Medical University Hospital*

Chih-Chao Hsu | *Taipei Medical University Hospital*

Shih-Ching Chen | *Taipei Medical University Hospital*

#### **ACENS-0025**

##### **3D Bioceramic Scaffolds Fabricated using Negative Thermo-Responsive Hydrogels for Promoting Bone Formation in Calvarial Defect**

Chao-Tang Chuang | *Kaohsiung Medical University*

Li-Cheng Pan | *Kaohsiung Medical University*

Yu-Feng Su | *Kaohsiung Medical University Hospital*

Yan-Hsiung Wang | *Kaohsiung Medical University*

Kuo-Lung Tung | *Kaohsiung Medical University*

Chih-Kuang Wang | *Kaohsiung Medical University*

#### **ACENS-0065**

##### **Collagen Scaffolds Derived from Porcine Dermal via Enzymes and Supercritical Carbon Dioxide Treatment for Minimally Invasive Surgeries in Orthopedics**

Wang-Yao Wu | *Ming Chuan University*

Kuan-Ta Chen | *Ming Chuan University*

Tse-Wei Ciou | *Ming Chuan University*

Tzu-Hung Su | *Ming Chuan University*

Ing-Lin Chang | *Changhua Christian Hospital*

Ching-Cheng Huang | *Ming Chuan University*

**ACENS-0196**

**Bio-Degradability and Cell-Proliferation Enhancement of PCL and PLGA 3D Scaffolds by Adjusting Wettability**

Jongseon Choi | *Pohang University of Science and Technology*

Zhan Li | *China Academy of Machinery Manufactureing Technology*

D. Weixiao | *China Academy of Machinery Manufactureing Technology*

D. Baozhen | *China Academy of Machinery Manufactureing Technology*

L. Guojie | *China Academy of Machinery Manufactureing Technology*

Woonbong Hwang | *Pohang University of Science and Technology*

**ACENS-0119**

**Bidirectional Gate Driver Circuit with High Driving Capability for High-Resolution Liquid-Crystal Displays**

Po-Cheng Lai | *National Cheng Kung University*

Ming-Xun Wang | *National Cheng Kung University*

Chih-Lung Lin | *National Cheng Kung University*

**Biology/ Biological Engineering (2)/ Applied Sciences (3)/**

**Agricultural Engineering and Technologies**

**Thursday, February 08, 2018      13:30-14:20      Room A**

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**ACENS-0026**

**Four-Aspect-Pattern (Zheng) Identification and Treatment of Warm Disease (Wen-Bing) in a Murine Model of *Salmonella Enterica* Subsp. *Enterica*, Serovar Typhimurium Infection**

Chia-Ying Lee | *China Medical University*

Shih-Chang Lee | *China Medical University*

Yuan-Man Hsu | *China Medical University*

**ACENS-0029**

**Genomic and Non-Genomic Effects of Estrogen to Ovarian Inflammation**

David Sun | *Cheng Hsin General Hospital*

Yuh-Lin Wu | *National Yang-Ming University*

**ACENS-0039**

**Protective Effects of Mori Folium against AICAR-Induced Muscle Atrophy Associated with Inactivation of AMPK in C2C12 Myotubes**

Jin-Woo Jeong | *Donggeui University College of Korean Medicine*

Yung Hyun Choi | *Donggeui University*

Cheol Park | *Donggeui University*

**ACENS-0053**

**Attitudes towards Mental Health Nursing Students**

Tien-Hui Luo | *Mackay Junior College of Medicine, Nursing, and Management*

Chih-Hsu Hsu | *Ching Kuo Institute of Management and Health*



**ACENS-0054**

**Self Assessment of Creativities in Senior College Nursing Students: Using Group Reports of Professional Activity Design**

Tien-Hui Luo | *Mackay Junior College of Medicine, Nursing, and Management*

Chih-Hsu Hsu | *Ching Kuo Institute of Management and Health*

**ACENS-0055**

**The Correlation of Type A Personality Trait and Practice Stress among the Nursing Students Who Took Practice in Psychiatric Ward**

Tien-Yi Tsao | *Mackay Junior College of Medicine, Nursing, and Management*

Chih-Hsu Hsu | *Ching Kuo Institute of Management and Health*

**ACENS-0074**

**A Novel Brewing Process of Sweet Potato Liquid Koji**

Takahiro Ichinose | *The University of Kitakyusyu*

Atsushi Hatakeyama | *Oenon Holdings, Inc.*

Tomoyoshi Takase | *Oenon Holdings, Inc.*

Hiroshi Morita | *The University of Kitakyushu*

**ACENS-0113**

**Induction of Interferon Regulatory Factor 1 by Idarubicin Leads to Interferon Signaling-Independent Activation of Interferon-Stimulated Genes and Resistance to Enterovirus Infections**

Szu-Hao Kung | *National Yang-Ming University*

Min-Tsz Huang | *National Yang-Ming University*

**ACENS-0188**

**The Antiviral Activities of Chinese Herbal Medicines**

T. H. Rau | *National Taiwan University*

J. R. Liu | *National Taiwan University*

**ACENS-0045**

**Effects of Fatty Acid Salts on the Contents of SH and S-S Groups in Bread Dough**

Takashi Hamaishi | *The University of Kitakyushu*

Morinaga Yoshiaki | *The University of Kitakyushu*

Hiroshi Morita | *The University of Kitakyushu*

**ACENS-0046**

**Isolation of Alcohol-Resistant Yeast from *Takakura* Loquat**

Yuji Moriguchi | *The University of Kitakyushu*

Hiroshi Morita | *The University of Kitakyushu*

**ACENS-0089**

**Study on Utilization of Fatty Acid Salts to Prevent Plant Diseases**

Akitaka Teshima | *The University of Kitakyushu*

Hiroshi Morita | *The University of Kitakyushu*

**ACENS-0094**

**High Acid-Stable  $\alpha$ -Amylase Production of *Aspergillus Kawachii* in Liquid Culture System**

Shohei Matsuo | *Kitakyushu University*

Atsushi Hataketama | *Oenon Holdings, Inc.*

Tomoyoshi Takase | *Oenon Holdings, Inc.*

Hiroshi Morita | *Kitakyushu University*

**ACENS-0224**

**Production of Functional Peptide from Lipid Extracted Microalgae Using Protease Separated From Cheonggukjang (Korean Bean Paste)**

Jinwoo Kim | *Sunmoon University*

Seungki Kim | *Sunmoon University*

Jaemin Jo | *Sunmoon University*

**ISFAS-0017**

**DPPH Scavenging Activity of Green Tea (*Camellia Sinensis*) by-Product (Twig) and Their Content of Epigallocatechin Gallate, Catechin and Epigallocatechin.**

Yu-Ching Hung | *Fu Jen Catholic University*

Yu-Hsuan Hsiao | *Fu Jen Catholic University*

Jung-Feng Hsieh | *Fu Jen Catholic University*

**ISFAS-0027**

**Analysis of Band-Pass Filter for Automatic Train Control**

Byoung-Hee Lee | *Hanbat National University*

**ISFAS-0007**

**Reduction of UV Induced Oxidative DNA Damage by Sakura Extracts**

Te-En Huang | *Huang Gang Green Detection Co., Ltd*

Chia-Chia Wang | *Huang Gang Green Detection Co., Ltd*

Ching-Gong Lin | *Chia-Nan University of Pharmacy and Science*

**ISFAS-0015**

**Comparison of the Antioxidant Activity of the Crude Extract and the Fractions of Column Chromatography for Fruit Shell of *Camellia Tenuifolia***

Wen-De Lai | *Chinese Culture University*

Juo-Yu Chen | *Chinese Culture University*

Hsin-Jung Wang | *Chinese Culture University*

Yi-Ping Yu | *Chinese Culture University*

**ISFAS-0016**

**Crude Ethanolic Extracts for Lotus Seedpod of *Nelumbo Nucifera* had Higher Antioxidant Activity than Fractions of Sephadex LH-20 Column Chromatography**

Juo-Yu Chen | *Chinese Culture University*

Wen-De Lai | *Chinese Culture University*

Ming-Chih Shih | *Chinese Culture University*

Yi-Ping Yu | *Chinese Culture University*

**ISFAS-0023**

**The Effect of Roasting on Nutritional and Antioxidant Properties of Wheat Germ**

Hung-Sen Peng | *Fu Jen Catholic University*

Meng-I Kuo | *Fu Jen Catholic University*

Yi-Ping Yu | *Chinese Culture University*

Tien-Tzu Li | *Texture Maker Enterprise Co., Ltd.*

Wen-Yao Yu | *Texture Maker Enterprise Co., Ltd.*

Chun-Ping Lu | *Fu Jen Catholic University*

**Education (2)/ Psychology/ Communication**

**Thursday, February 08, 2018      14:30-15:20      Room A**

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**ISSSM-0022**

**The Impact of a Spiritual Course on Spirituality and Spiritual Care among Nursing Students in Taiwan**

Ya-Chu Hsiao | *Chang Gung University of Science and Technology*

Hsiang-Chun Lee | *Chang Gung University of Science and Technology*

Yi-Chien Chiang | *Chang Gung University of Science and Technology*

**ISSSM-0038**

**Development and Assessment of an Analogical Reasoning Test for Young Children**

Ya-Feng Cheng | *University of Kang Ning*

**ISSSM-0039**

**Empirical Validation of the Interest Development Model of Social Cognitive Career Theory—Using Five-Year Junior College Students of Early Childhood Education and Care as an Example**

Hsiu-Chin Lin | *Muzha Elementary School*

Ya-Feng Cheng | *University of Kang Ning*

Hui-Ling Chen | *University of Kang Ning*

**ISSSM-0049**

**A Study on the Honorific in *Towazugatari* Focus on ‘Haberī’**

Ki Jeong Do | *Namseoul University*

In-Ho Choi | *Namseoul university*

**ISSSM-0069**

**A Study of In-Service and Pre-Service Special Education Teachers’ Perceptions of Technology Use in Special Education**

Kyoung-Ock Park | *Daegu University*

**ISSSM-0076**

**Intensional Answers in Object-Oriented Databases Systems for Searching Young Gifted Athletics: Ice Skating Case**

Yang Hee Kim | *Korea National Sport University*

**ISSSM-0079**

**A Study of a Beginning Elementary School Principal's Socialization**

Chih-Feng Lai | *National Taichung University of Education*

**ISSSM-0080**

**A Competency Assessment of the Five Year Students' Bachelor of Education Program in Learning Management Field of Study in Physical Education and Health Education, Faculty of Education and Development Science, Kasetsart University Kamphaengsaen Campus**

Suppawan Vongsrangsap | *Kasetsart University Kamphaengsaen Campus*

Sirichai Sriprom | *Kasetsart University Kamphaengsaen Campus*

Winai Poonsri | *Kasetsart University Kamphaengsaen Campus*

Mayuree Tanomsuk | *Kasetsart University Kamphaengsaen Campus*

Somboon Silrungham | *Kasetsart University Kamphaengsaen Campus*

Tharin Kanlueng | *Kasetsart University Kamphaengsaen Campus*

Pornpen Lapho | *Kasetsart University Kamphaengsaen Campus*

Bundit Thiabthong | *Kasetsart University Kamphaengsaen Campus*

Vorrapong Yamngamlua | *Kasetsart University*

**ISSSM-0088**

**Key Competencies Required for Adult Learners in the Future Society**

Ju Sung Jun | *Soongsil University*

Soyoung Kim | *Korea National Sport University*

**ISSSM-0123**

**The Study on Efficiency of Extra-Curricular Activities Model for Enhancing Communication Skills in the 21st Century Skills of Mathematics Education Students**

Kanitha Chaowatthanakun | *Kasetsart University*

Tassanee Juntiya | *Kasetsart University*

Pawarit Nantharatkun | *King College*

**ISSSM-0127**

**The Development of Supervision Design for English Education Program Teacher Students**

Tassanee Juntiya | *Kasetsart University*

Jiraporn Kakeaw | *Kasetsart University*

Kanitha Chaowatthanakun | *Kasetsart University*

Orawan Thongperm | *Kasetsart University*

**ISSSM-0155**

**The Longitudinal Relationships among Self-Concept, Parenting Behaviors, Peer Relationships**

Soyoung Kim | *Korea National Sport University*

Hae Young Kim | *Korea National Sport University*

**ISSSM-0218**

**“A Pilot Study on Learning Outcomes of a Creative Thinking Curriculum”**

Chun-Wen Teng | *Feng Chia University*

Yao-Chuan Lee | *Feng Chia University*

Shu-Yi Hung | *National Taichung University of Science and Technology*

**ISSSM-0058**

**Self-Esteem Development of Adolescent with Multiple Indicator Latent Growth Model: The Role of Peer Relationship**

Seul Lee | *Sungkyunkwan University*

Seungmin Jahng | *Sungkyunkwan University*

**ISSSM-0061**

**Does a “good” Stressors Make a Psychologically Healthy Person? Differential Hindrance-Challenge Stressor Relationship with Job Crafting and Psychological Well-Being of Fire Officer**

Yeongsin Ju | *Sungkyunkwan University*

Juil Rie | *Hallym University*

Seungmin Jahng | *Sungkyunkwan University*

**ISSSM-0077**

**Development and Validation of the Korean Version of International Personality Item Pool(IPIP-NEO) –Based Measure of the Five-Factor Model**

Tae-Hwa Kim | *Sungkyunkwan University*

Sunbeom Kwon | *Sungkyunkwan University*

**ISSSM-0114**

**The General Trajectory of Cognitive Function from Middle to Older Adults: An Application of Latent Growth Models**

Seongchang Jeong | *Sungkyunkwan University*

Changhoon Han | *Sungkyunkwan University*

**ISSSM-0168**

**Changes in Heart Rate Variability Induced by Anger in Individuals with High Neuroticism**

Young-Ji Eum | *Chungnam National University*

Eun-Hye Jang | *Electronics and Telecommunications Research Institute*

Ji-Woo Seok | *Honam University*

E-Nae Cheong | *Korea Basic Science Institute*

Jin-Hun Sohn | *Chungnam National University*

**ISSSM-0178**

**Regular Exercise Behavioral Intention of College Students**

Chang-Shuo Huang | *National Yunlin University of Science and Technology*

Mei-Fang Chen | *National Yunlin University of Science and Technology*

**ISSSM-0074**

**Factors Predict the Addiction to Viewing Live Webcasts**

Chi Ying Chen | *Asia University*

Ting Han Shen | *Asia University*

**Environmental Engineering (2)/ Materials Science and  
Engineering (2)**

**Thursday, February 08, 2018      15:30-16:20      Room A**

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**ACENS-0164**

**Study on Photocatalytic Degradation of Volatile Organic Compound**

Kai Chau Chang | *St. Mary's Medicine Nursing and Management College*

Hsiu Yueh Cheng | *St. Mary's Medicine Nursing and Management College*

Wen Ching Chen | *St. Mary's Medicine Nursing and Management College*

Chih Ming Ma | *St. Mary's Medicine Nursing and Management College*

**ACENS-0156**

**Nano Scale Pillar-Structured Perovskite Photodetector**

Do Hyung Chun | *Yonsei University*

Jong Yeob Jeong | *Yonsei University*

Jong Hyeok Park | *Yonsei University*

**ACENS-0158**

**Multiple Heterojunction in Single Titanium Dioxide Nanoparticle for Novel Metal-free  
Photocatalysis**

Sungsoon Kim | *Yonsei University*

Yoonjun Cho | *Yonsei University*

Jong Hyeok Park | *Yonsei University*



#### **ACENS-0179**

##### **Effects of Substitution of Transition Metal on the Stability of A-Lialo<sub>2</sub> Matrix in Molten Carbonate Fuel Cells**

Jong Gyu Park | *Gachon University*

Sung Pil Woo | *Yonsei University*

You Na Lee | *Gachon University*

Dae Yun Kim | *Gachon University*

Yoo Lim Cha | *Gachon University*

Young Soo Yoon | *Gachon University*

#### **ACENS-0217**

##### **Three-Dimensional Ordered Nanomesh Nickel Electrode for Highly Efficient Oxygen Evolution Reaction**

Yoonjun Cho | *Yonsei University*

Sungsoon Kim | *Yonsei University*

Jong Hyeok Park | *Yonsei University*

#### **ACENS-0218**

##### **Vertically Oriented MoS<sub>2</sub> with Spatially Controlled Geometry on Graphene Sheets for High-performance Sodium-ion Batteries**

Jong Yeob Jeong | *Yonsei University*

Jong Hyeok Park | *Yonsei University*

#### **ACENS-0219**

##### **Electrochemical Oxidation of Methane at Ambient Temperature**

Ji Won Kim | *Yonsei University*

Jong Hyeok Park | *Yonsei University*

#### **ACENS-0230**

##### **Structural Effect on Electrochemical Properties of BaSnO<sub>3</sub> as Anode Material for Lithium-Ion Batteries.**

Yoo Lim Cha | *Gachon University*

Sung Pil Woo | *Yonsei University*

You Na Lee | *Gachon University*

Dae Yun Kim | *Gachon University*

Jong Gyu Park | *Gachon University*

Yong Soo Yoon | *Gachon University*

**ACENS-0231**

**Investigation of Tin Coated Graphite for Reusable Crucible in Nuclear Environment**

Dae Yun Kim | *Gachon University*

You Na Lee | *Gachon University*

Sung Pil Woo | *Yonsei University*

Jong Gyu Park | *Gachon University*

Yoo Lim Cha | *Gachon University*

Yong Soo Yoon | *Gachon University*