

Conference Program

Okinawa, Japan

September, 2014

GCAEER

Global Conference on Applied Engineering and Environment Research

BREFM

International Business Research, Economics, Finance and MIS Conference

GHTMM

Global Hospitality, Tourism Marketing & Management Conference

IBCELC

International Biotechnology, Chemical Engineering and Life Science Conference

GCAEER

Global Conference on Applied Engineering and Environment Research

ISBN 978-986-89844-2-4

BREFM

International Business Research, Economics, Finance and MIS Conference

ISBN 978-986-90827-0-9

GHTMM

Global Hospitality, Tourism Marketing & Management Conference

ISBN 978-986-90827-3-0

IBCELC

International Biotechnology, Chemical Engineering and Life Science Conference

ISBN 978-986-90263-9-0

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General Information for Conference Participants

Information and Registration

The Registration and Information Desk will be situated in the **Kafuu Resort Fuchaku CONDO.HOTEL** on **the second floor**, and will be open at the following times:

Thursday, September 4 (8:30-16:30)

Friday, September 5 (8:30-12:00)

Parallel Sessions

Parallel Sessions will run on September 4 and 5. Oral Sessions are usually 90 minutes in length; each presenter has 12-15 minutes.

Presentations and Equipment

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 that you bring two copies the file in case of one fails. You may also link your own laptop to the provided projector, however please ensure you have the requisite connector.

A Polite Request to All Participants

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



Sandals or Slippers



Tank Top



Shorts

Poster Sessions & Poster Requirements

Materials Provided by the Conference Organizer:

1. X-frame display & Base Fabric Canvases (60cm×160cm)
2. Adhesive Tapes or Clamps



Materials Prepared by the Presenters:

1. Home-made Poster(s)
2. Material: not limited, can be posted on the canvases
3. Size: 60cm*160cm

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

Conference Venue Information & Floor Plan (2F)

Kafuu Resort Fuchaku CONDO.HOTEL

246-1 Aza Fuchaku Shirifukuchihara Onna-son, Kunigami-gun, Okinawa 904-0413

TEL: 098-964-7000



ACCESS

Highway: 50 mins from Naha airport, exit at Ishikawa interchange.

Public road: 90 mins from Naha airport on route 58 (high chance of congestion)

20 mins from Kadena Town on route 58.

Taxi: 50 mins from Naha airport, roughly ¥9,000

Public bus: Bus #120 from Naha airport, alight at "Fuchaku" and walk 5 mins.

Kafuu Resort Fuchaku CONDO-HOTEL

Fuchaku Beach, Onna Village, Okinawa Prefecture.

TEL: 098-964-7000

www.kafuu-okinawa.jp



Taxi

From Naha Airport

[Public road] Approx. 90 min \9,000~12,000

[Toll road] Approx. 50 min

Public Bus

■Bus

[From Naha Airport]

↓ Public bus Approx. 120 min

(#20 Nago Nishi Sen/ #120 Nago Nishi Kuko Sen)

[Fuchaku stop]

↓ 5 min walk

[Kafuu Resort Fuchaku CONDO · HOTEL]

■Airport Limousine Bus

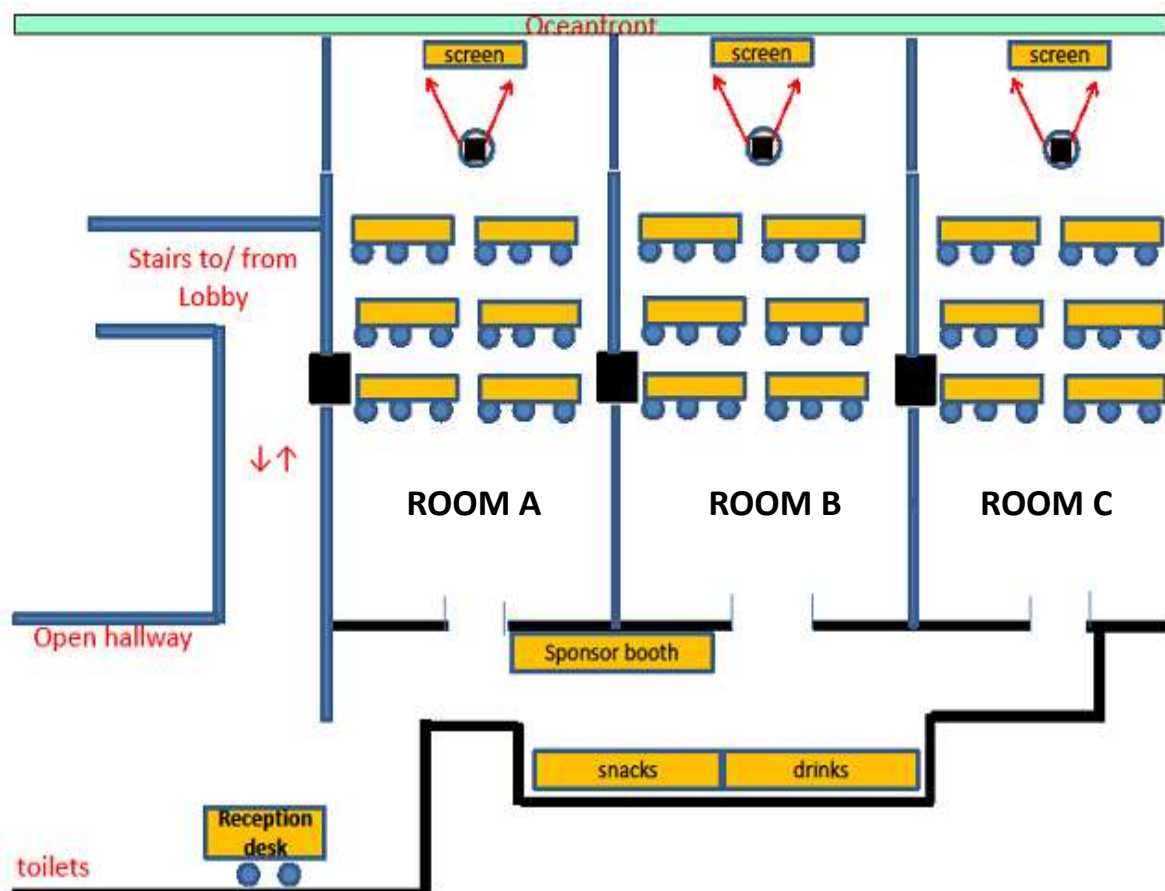
[From Naha Airport]

↓ Approx. 70 min ¥1,640

[Sunmarina Hotel]

※ We offer shuttle pick up to Sunmarina hotel with prior reservation.

Floor Plan (2F)



Conference Schedule

Thursday, September 4, 2014	
Oral Sessions	
Time	Information
08:30-16:30	Registration
08:45-10:15	Room A--- Chemical Engineering
	Room B--- MIS-Management Information System
10:15-10:45	Tea Break
10:45-12:15	Room A---Social Science Keynote Speech Keynote Speaker: <i>Dr Chris Baumann</i> Paper title : <i>Global thought leader and academic in marketing and competitiveness</i>
	Room B ---Natural Science Keynote Speech Keynote Speaker: <i>Prof. Ochieng Aoyi</i> Paper title : <i>Integrated Wastewater Treatment and Bioenergy Production</i>
12:15-13:30	Lunch Time
13:30-15:00	Room A --- Biotechnology Engineering
	Room B --- Education/Tourism/ Hospitality
15:15-16:45	Room A --- Mechanical Engineering/Applied Engineering/ Electrical and Electronics Engineering
	Room B--- Management

Thursday, September 4, 2014

Room C

Poster Sessions

Time	Information
08:30-16:30	Registration
10:00-11:00	Biotechnology Engineering
13:30-14:30	Life Science
15:00-16:00	Economics
	Finance & Accounting
	MIS-Management Information System
	Management
	Marketing
	Education

Friday , September 5, 2014

Oral Sessions

Time	Information
08:30-12:00	Registration
08:45-10:15	Room A--- Life Science/Agriculture Economics
	Room B--- Finance & Accounting
10:15-10:30	Tea Break
10:30-12:15	Room A--- Environment Research
	Room B--- Marketing/Economics
12:15-13:30	Lunch Time

Friday , September 5, 2014

Room C

Poster Sessions

Time	Information
08:30-12:00	Registration
09:30-10:30	Chemical Engineering
	Applied Engineering
	Electrical and Electronics Engineering
11:00-12:00	Life Science
	Environment Research
	Agriculture Economics

Saturday , September 6, 2014

Executive Committee Meeting (Committee Only)

Conference Organization

GCAEER International Committee Board

Ahmad Zuhairi ABDULLAH

Universiti Sains Malaysia

PREM RAJ Pushpakaran

*School of Bio-Technology National Institute of
Technology Calicut*

T. Sivakumar

Annamalai University

Yinglong Chen

University of Western Australia

B.Sivaprakash

Annamalai University

IBCELC International Committee Board

Abhijit Bandyopadhyay	<i>Department of Polymer Science and Technology, University of Calcutta</i>
Ahmad Zuhairi Abdullah	<i>School of Chemical Engineering, Universiti Sains Malaysia</i>
Bing Joe Hwang	<i>Department of Chemical Engineering, National Taiwan University of Science and Technology</i>
Chung-Sung, Tan	<i>Department of Chemical Engineering, National Tsing Hua University</i>
Dominic Agyei	<i>Bioengineering Laboratory, Department of Chemical Engineering, Monash University Clayton Campus</i>
Fadzilah Adibah Abdul Majid	<i>Department of Bioprocess Engineering, Universiti Teknologi Malaysia</i>
Hamed M. El-Shora	<i>Botany Department, Mansoura University</i>
Hasan Akhtar Zaidi	<i>University School of Chemical Technology, Guru Gobind Singh Indraprastha University</i>
Henry N.C. Wong	<i>Department of Chemical, The Chinese University of Hong Kong</i>
Huabei Jiang	<i>Biomedical Engineering, The University of Florida</i>
I-Ming Hsing	<i>Department of Chemical and Biomolecular Engineering, The Hong Kong University of Science and Technology</i>
K. Padmakumar	<i>Centre for Marine Biodiversity, Kerala University Campus</i>
Ken-Shiung Chen	<i>School of Biological Sciences, Nanyang Technological University</i>
Kondabagil K.	<i>Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay</i>
M.Lakshmi Narasu	<i>Center for Biotechnology, Institute of Science and Technology</i>
Mihir Kumar Purkait	<i>Department of Chemical Engineering, Indian Institute of Technology Guwahati</i>

Mohd Farid bin Atan	<i>Department of Chemical Engineering and Energy Sustainability, University of Sarawak Malaysia</i>
Mohd. Nasir Mohd. Desa	<i>Department of Biomedical Sciences, Universiti Putra Malaysia</i>
Olivia J Fernando	<i>Centre of Advanced Study in Marine Biology, Annamalai University</i>
Parin Chaivisuthangkura	<i>Deputy Dean for Academic Affairs, Department of Biology, Srinakharinwirot University</i>
Ramasare Prasad	<i>Department of Biotechnology, Indian Institute of Technology Roorkee</i>
Rungtip Soi-ampornkul	<i>Department of Biochemistry, Faculty of Medicine Siriraj hospital, Mahidol University</i>
Shang-Da, Huang	<i>Department of Chemical, National Tsing Hua University</i>
Stephen Redmond	<i>Graduate School of Biomedical Engineering, The University of New South Wales</i>
Sue-Joan, Chang	<i>Department of Life Sciences, National Cheng Kung University</i>
Sungjee Kim	<i>Department of Chemical Engineering, Sungkyunkwan University</i>
Yen-Chung, Chang	<i>Institute of Molecular Medicine, National Tsing Hua University</i>
Yun-Peng, Chao	<i>Department of Chemical Engineering, Feng Chia University</i>

Special Thanks to Session Chairs

Anawat Sungpet	<i>King Mongkut's University of Technology Thonburi</i>
Yen-Liang Chen	<i>National Central University</i>
Sasithorn Kongruang	<i>King Mongkut's University of Technology North Bangkok</i>
Jung-Bin Li	<i>Fu-Jen Catholic University</i>
Fu-Kuang Yeh	<i>China University of Science and Technology</i>
Hsieh-Hua Yang	<i>Oriental Institute of Technology</i>
Tuanjai Somboonwiwat	<i>King Mongkut's University of Technology Thonburi</i>
Chin-Yu Wang	<i>Takming University of Science and Technology</i>
Garth Irons	<i>Macquarie University</i>
Chi-Yin Wu	<i>Feng Chia University</i>

Keynote Speech

Room A

2014/09/04 Thursday 10:45-12:15



Dr Chris Baumann

Global thought leader and academic in marketing and competitiveness

Macquarie University, Sydney, Australia

Visiting Professor Seoul National University (SNU), Korea

Chris Baumann is a Senior Lecturer at Macquarie University in Sydney, Australia. His research includes customer loyalty, competitiveness in education and society, ethnic marketing, and East Asia (China and Korea). Dr Baumann has nearly 40 publications in international journals and conference proceedings with roughly 270 citations. He has been awarded several times for his research and teaching, including from the Australian government for his enthusiastic approach to education. At the Academy of International Business (AIB) Conference in 2010, Chris won a Best Reviewer Award. He has been appointed as a Visiting Professor at Seoul National University (SNU) in South Korea and at Aarhus University in Denmark, and Chris's teaching experience also includes Hong Kong, Jakarta and Singapore. He has a long-standing relationship with Simon Fraser University (SFU) in Canada as an MBA Alumni and research collaborator. Prior to academia, Chris worked several years in the Swiss banking industry.

Abstract

East Asia is increasingly developing into an educational powerhouse and role model. Academic performance of Chinese, Japanese, Korean, Singaporean and Taiwanese students is superseding that of Western students in international student competitions such as PISA. Why is this the case? While there may be some global convergence in terms of curriculum content, the pedagogical approaches diverge. In contrast to the Western approach, East Asia typically places a strong emphasis on Competition and Confucianism in its education systems. This study tests the effectiveness of that approach at the tertiary level and compares it to the Western paradigm. Three models have been developed to probe the effect of Confucianism and Competitiveness on Academic Performance. Australian, Chinese and Korean samples were analysed to test for such effects in a three-country model comparison. Partial least squares (SmartPLS) modelling with second order formative constructs are presented with concrete implications for education policy.

Keynote Speech

Room B

2014/09/04 Thursday 10:45-12:15



Prof. Ochieng Aoyi

Integrated Wastewater Treatment and Bioenergy Production

Professor and Director

Centre for Renewable Energy and Water

Vaal University of Technology, South Africa

Brief biography

Ochieng Aoyi is a professor of chemical engineering at the Vaal University of Technology (VUT), South Africa. He has published largely in the fields of environmental management, computational fluid dynamics (CFD) and bioenergy. His broad research interests include climate change, biofuels and water/wastewater management. He is director of the Centre for Renewable Energy and Water at the VUT. He has got about 20 years of research and teaching experienced gained from different universities spread across the globe (Kenya, Tanzania, China, Australia, Germany and South Africa). He has worked with people from different cultures and speaks English, Chinese, Kiswahili, French and Dholuo. He is an editor of two journals and a regular reviewer for 18 internationally accredited journals based in different parts in the world. He is currently supervising 18 postgraduate students (10 MSc and 8 PhD).

Oral Sessions

Chemical Engineering

Room A

2014/09/04 Thursday 08:45-10:15

Session Chair: *Prof. Anawat Sungpet*

IBCELC-512

Separation of Azeotropic Mixtures by Polystyrene-based Adsorbents

Anawat Sungpet | *King Mongkut's University of Technology Thonburi*

Poomaree Chaisen | *King Mongkut's University of Technology Thonburi*

IBCELC-520

Downstream Process Synthesis Including Complex Column Configurations for the Recovery of Acetone, Butanol and Ethanol from Aqueous Solutions

Paritta Prayonyong | *Mahidol University*

IBCELC-466

Free-radical Scavenging Activity and Stabilization of Trans-3,5,4-trihydroxystilbene

Sangu Kim | *Institute of Chemical and Engineering Sciences*

Wai Kiong Ng | *Institute of Chemical and Engineering Sciences*

Reginald B.H. Tan | *Institute of Chemical and Engineering Sciences*

IBCELC-435

Liquid-liquid Equilibria of Aqueous Two-phase Systems Composed of Ethylene Oxide-propylene Oxide Random Copolymer and Citrate Salts

Gajeshwaren V. Balakrishnan | *Monash University Malaysia*

Lo Sewn Cen | *Monash University Malaysia*

Ooi Chien Wei | *Monash University Malaysia*

Ramakrishnan Nagasundara Ramanan | *Monash University Malaysia*

GCAEER-207

**Kinetic Modeling of the Photocatalytic Reduction Of Cr(VI) in the Presence of Dye
Using Composite Photocatalyst**

Kwena Y. Pete | *Vaal University of Technology*

Maurice S. Onyango | *Tshwane University of Technology*

Mika Sillanpää | *Lappeenranta University of Technology*

Aoyi Ochieng | *Vaal University of Technology*

MIS-Management Information System

Room B

2014/09/04 Thursday 08:45-10:15

Session Chair: *Prof. Yen-Liang Chen*

BREFM-565

A New Approach for Mining Group's Consensus

Yen-Liang Chen | *National Central University*

BREFM-563

A Strategic Analysis of Competition between the "Software-as-a-Service" Business Models and Conventional Software Providers

Bih-Huang Jin | *Tunghai University*

Yu-Chen Chien | *Tunghai University*

BREFM-595

A Keystroke Dynamics-based Method for the Recognizing of Fraud Messages on the Internet

Ting-Yi Chang | *National Changhua University of Education*

Cheng-Jung Tsai | *National Changhua University of Education*

Chun-Cheng Peng | *Chaoyang University of Technology*

Mao-Lun Chiang | *Chaoyang University of Technology*

Po-Hao Huang | *National Changhua University of Education*

BREFM-634

Korean (Hang ū l) Handwriting Recognition using Diagonal Based Feature Extraction and Backpropagation Neural Network

Rian Harris Nasution | *North Sumatera University*

Erna Budhiarti Nababan | *North Sumatera University*

Dedy Arisandi | *North Sumatera University*

Opim Salim Sitompul | *North Sumatera University*

BREFM-656

An Adaptive Dietary Management Model Based on Analytic Hierarchy Process and Multi-Objective Programming

Jung-Bin Li | *Fu-Jen Catholic University*

Wei-Jan Huang | *Fu-Jen Catholic University*

Biotechnology Engineering

Room A

2014/09/04 Thursday 13:30-15:00

Session Chair: *Prof. Sasithorn Kongruang*

GCAEER-185

Morphological Characteristics and Fatty acid Profiling of Thai Oleaginous Yeasts for Biotechnological Application

Surapan Kongyang | *King Mongkut's University of Technology North Bangkok*

Theerawut Phusantisampan | *King Mongkut's University of Technology North Bangkok*

Sasithorn Kongruang | *King Mongkut's University of Technology North Bangkok*

IBCELC-498

Generation of Chloramphenicol Resistance Plasmids Functional at High Temperatures by using an Error-prone Thermophile

Jyumpei Kobayashi | *Kyushu University*

Misaki Tanabiki | *Tottori University*

Megumi Furukawa | *Kyushu University*

Hisashi Yagi | *Tottori University*

Takashi Ohshiro | *Tottori University*

Hirokazu Suzuki | *Kyushu University*

IBCELC-540

Effect of Neutral Salt Addition on Partition of Bacillus Macerans Cyclodextrin Glycosyltransferase in an Aqueous-Two Phase System (ATPS)

Hui Suan Ng | *UCSI University*

Irene Cheng | *UCSI University*

Tunung Robin | *UCSI University*

IBCELC-676

The Bending Strength Analysis of Dynamic Hip Screw Plates with CNC and Forging Manufacture Processing

Hsu-Fu Wu | *National Cheng-Kung University*

Wan-Chi Chang | *Metal Industries Research & Development Centre*

Can-Xun Chang | *Metal Industries Research & Development Centre*

Chih-Han Chang | *National Cheng-Kung University*

IBCELC-499

Finding the Active Site and Deducing the Function of Bleg1_3058, a Possibly Novel Iron Homeostasis Protein, from Bacillus Lehenis G1 via Docking and Molecular Dynamics Simulations

Normi Mohd Yahaya | *Universiti Putra Malaysia*

Mohd Hairul Naim Bakri | *Universiti Putra Malaysia*

Roghayeh Abedi Karjiban | *Universiti Putra Malaysia*

Adam Thean Chor Leow | *Universiti Putra Malaysia*

Abu Bakar Salleh | *Universiti Putra Malaysia*

Abdul Munir Abdul Murad | *Universiti Kebangsaan Malaysia*

Nor Muhammad Mahadi | *Malaysia Genome Institute*

Mohd Basyaruddin Abdul Rahman | *Universiti Putra Malaysia*

GCAEER-147

Diversity of Iron and Zinc Levels in Bananas from East and Central Africa

Michael Pillay | *Vaal University of Technology*

Robert Fungo | *Bioversity International*

GCAEER-155

Comparison of Cytotoxic Effects and Apoptosis Induction in Human Prostate Cancer PC3 Cells by Different Species of Genus Camellia

Chun-Chieh Wang | *Dayeh University*

Shih-Chieh Lee | *Dayeh University*

Tzong-Der Way | *China Medical University*

GCAEER-164

Effect of Different Germination Conditions on Antioxidative Properties and Bioactive Compounds of Germinated Brown Rice

You-Tung Lin | *Dayeh University*

Cheng-Cheng Pao | *Dayeh University*

Chi-Yue Chang | *Dayeh University*

Education/Tourism/ Hospitality

Room B

2014/09/04 Thursday 13:30-15:00

Session Chair: ***Prof. Jung-Bin Li***

GHTMM-65

Taipei Metro Go Go Go – An Efficient Application Development Practice of Tour Planning System Based on User Attribute Classification

Jung-Bin Li | *Fu-Jen Catholic University*

Chien-Ho Wu | *Fu-Jen Catholic University*

Yen-Chu Chou | *Fu-Jen Catholic University*

BREFM-167

Adult Education in Entomophagy

Garth Irons | *Miyazaki Municipal University*

GHTMM-41

Restaurant Revenue Management in Dutch Culinary Restaurants

Sjoerd Gehrels | *Stenden University of Applied Sciences*

Wouter van Poppel | *Concertgebouw Amsterdam*

GHTMM-54

Sofa for a Night, May I? The Couch Surfing Perspective

Edward Ku | *National Kaohsiung University of Hospitality and Tourism*

Chien Chi Yeh | *National Kaohsiung University of Hospitality and Tourism*

GHTMM-53

The Use of Person-environmental Fit on Destination Image, and Customer Attribute: The Effects on Ratifications

Chien Chi Yeh | *National Kaohsiung University of Hospitality and Tourism*

Yao Chung Tai | *National Kaohsiung Marine University*

Jong Yiing Lii | *National Kaohsiung Marine University*

**Mechanical Engineering/Applied Engineering/
Electrical and Electronics Engineering**

Room A

2014/09/04 Thursday 15:15-16:45

Session Chair: ***Prof. Fu-Kuang Yeh***

GCAEER -166

Prediction of Penetration Region for Moving High-Intensity Energy Beam

C. Y. Ho | *Hwa Hsia Institute of Technology*

Y. H. Tsai | *Hwa Hsia Institute of Technology*

C. S. Shih | *Hwa Hsia Institute of Technology*

GCAEER -186

Low-Pass Filter Designs Utilizing Microstrip Line with Defected Ground Structure for Effectively Inhibiting Harmonics

Juo-Chen Chen | *National Chin-Yi University of Technology*

Yen-Chung Chiang | *National Chung Hsing University*

Jye-Chau Su | *National Chin-Yi University of Technology*

GCAEER -192

Integrated Design of Guidance and Autopilot Using Observer-based Adaptive Fuzzy Sliding-Mode Control for Missiles

Fu-Kuang Yeh | *China University of Science and Technology*

Kuang-Yang Kou | *National Central Police University*

GCAEER -193

Applying A Fuzzy-Based Taguchi Methodology for Multi-Objective Design of BLDC Motors

Sy-Ruen Huang | *Feng Chia University*

Kuo-Hua Huang | *Feng Chia University*

Yen-Huai Ma | *Feng Chia University*

Management

Room B

2014/09/04 Thursday 15:15-17:00

Session Chair: *Prof. Hsieh-Hua Yang*

BREFM-172

Participation in Medical Encounter — Does Social Capital Matter?

Hsieh-Hua Yang | *Oriental Institute of Technology*

Fen Fen Huang | *Oriental Institute of Technology*

Yi-Horng Lai | *Oriental Institute of Technology*

Hung-Jen Yang | *National Kaohsiung Normal University*

BREFM-588

Consumer Purchase Intention is Affected by Social and Individual Level Factors

Ing-Chung Huang | *National University of Kaohsiung*

Pey-Lan Du | *National Quemoy University*

Li-Fan Wu | *National Sun Yat-Sen University*

Wei-Chang Huang | *National Sun Yat-Sen University*

Yang-Hsin Fu | *National University of Kaohsiung*

BREFM-613

Healthy Workplace Practices, Employee Emotional Labor, and Customer Relationship Quality in Service Industry

Long-Sheng Lin | *Tainan University of Technology*

Tsai-Fei Lin | *National Sun Yat-Sen University*

Ing-Chung Huang | *National University of Kaohsiung*

Pey-Lan Du | *National Quemoy University*

BREFM-614

Can Procedural Justice Reduce the Negative Effects of Perceptions of Organizational Politics on Turnover Intention?

Ing-Chung Huang | *National University of Kaohsiung*

Tung-Ming Lin | *National Sun Yat-Sen University*

Li-Chang Wu | *National University of Kaohsiung*

Pey-Lan Du | *National Quemoy University*

BREFM-626

Failure to Voice? The Relations of Empowering Leadership, Employee Silence and Creativity: The Moderating Effects of Organization-Based Self-Esteem

Tzu-Jung Wu | *National Sun Yat-sen University*

Pei-Fan Chen | *National Sun Yat-Sen University*

Ing-Chung Huang | *National Sun Yat-sen University*

Pey-Lan Du | *National Sun Yat-sen University*

GHTMM-56

The Performance Evaluation of Japanese Hotels: An Application of Data Envelopment Analysis Model

Hitoshi Katsukura | *Yuan Ze University*

Yi-Chuan Lu | *Yuan Ze University*

Hilary Cheng | *Yuan Ze University*

BREFM-593

The Test of Tariff Endogeneity in Taiwan: the Application of the ARDL Cointegration Approach

Ming-Hung Yao | *National Kaohsiung University of Applied Sciences*

Shiou-Yen Chu | *National Chung Cheng University*

Huei-Ling Hou | *Tunghai University*

Life Science/Agriculture Economics

Room A

2014/09/05 Friday 08:45-10:15

Session Chair: ***Prof. Tuanjai Somboonwiwat***

GCAEER-211

Environmental Impact Reduction and Economics Analysis of Frozen Fish Processing

Varunya Kulkittirungsri | *King Mongkut's University of Technology Thonburi*

Tuanjai Somboonwiwat | *King Mongkut's University of Technology Thonburi*

GCAEER-220

Evaluation of the Socio-Economic Impact of Marine Debris in Coastal Nigeria

Chibuzo Okoye Daniels | *Plymouth University*

Gillian Glegg | *Plymouth University*

Lynda Rodwell | *Plymouth University*

GCAEER-210

Implementation Status of Environmental Education in Taiwan

Chang-Mao Lee | *Da-Yeh University*

Ching-Hwa Lee | *Da-Yeh University*

Ching-Hua Liao | *Da-Yeh University*

IBCELC-475

Fatty Acid Binding Protein 3 (FABP3) Deficiency in the Mouse Trophoblast Impaired

Fatty Acid Transport from Mother to Fetus

Ariful Islam | *Yamaguchi University Graduate School of Medicine*

Yoshiteru Kagawa | *Yamaguchi University Graduate School of Medicine*

Majid Ebrahimi | *Yamaguchi University Graduate School of Medicine*

Hirofumi Miyazaki | *Yamaguchi University Graduate School of Medicine*

Yuki Yasumoto | *Yamaguchi University Graduate School of Medicine*

Yui Yamamoto | *Yamaguchi University Graduate School of Medicine*

Tomoo Sawada | *Yamaguchi University Graduate School of Medicine*

Yuji Owada | *Yamaguchi University Graduate School of Medicine*

IBCELC-542

Effect of Light Intensity on Retinal Dehydrogenase (PmRADH) mRNA in *P. Monodon* Ovary

Pattareeya Ponza | *Naresuan University*

Sasithorn Petkhon | *National Science and Technology Development Agency*

Bunlung Nuengsaeng | *Burapha University*

Ratchanimuk Hiransuchalert | *Burapha University*

Sirawut Klingbunga | *National Science and Technology Development Agency*

IBCELC-666

Identification, Characterization and Expression Profiling of Salt-stress Tolerant Proton Gradient Regulator 5 (PGR5) in *Gossypium Arboreum*

Muhammad Naveed Shahid | *University of the Punjab*

Adil Jamal | *University of the Punjab*

Beenish Aftab | *University of the Punjab*

Bahaeldeen Babiker Mohamed | *University of the Punjab*

Muhammad Sarfraz Kiani | *University of the Punjab*

Bushra Rashid | *University of the Punjab*

Tayyab Husnain | *University of the Punjab*

IBCELC-619

Structure and Molecular Interactions of Bleg1_2507, an Uncharacterized Copper-scaffold Protein, of *Bacillus lehensis* G1

Soo Huei Tan | *Universiti Putra Malaysia*

Normi Mohd Yahaya | *Universiti Putra Malaysia*

Adam Thean Chor Leow | *Universiti Putra Malaysia*

Abu Bakar Salleh | *Universiti Putra Malaysia*

Roghayeh Abedi Karjiban | *Universiti Putra Malaysia*

Nor Muhammad Mahadi | *Malaysia Genome Institute*

Mohd Basyaruddin Abdul Rahman | *Universiti Putra Malaysia*

Abdul Munir Abdul Murad | *Universiti Kebangsaan Malaysia*

IBCELC-620

Molecular Identification: Choosing the Right Primers for Identification of Selected Medicinal Plants of Malaysia

Darlina Md Naim | *Universiti Sains Malaysia*

NUr Aqidah A. Aziz | *Universiti Sains Malaysia*

Mardiana Idayu Ahmad | *Universiti Sains Malaysia*

Finance & Accounting

Room B

2014/09/05 Friday 08:45-10:15

Session Chair: *Prof. Chin-Yu Wang*

BREFM-600

The Income Structure and Financial Performance: Evidence from the U.S. Real Estate Investment Trusts

Chin-Yu Wang | *Takming University of Science and Technology*

Ming-Chi Chen | *National Sun Yat-sen University*

So-De Shyu | *Takming University of Science and Technology*

BREFM-578

CEO Perquisites and Voluntary Disclosure

Chia-Wei Huang | *Yuan Ze University*

Chih-Yen Lin | *Fu Jen Catholic University*

BREFM-581

Founding Family Firm and Bank Loan Contracts

Chih-Yung Lin | *Yuan Ze University*

Ju-Fang Yen | *National Taipei University*

Yan-Shing Chen | *National Taiwan University*

Ying-Chen Huang | *National Taiwan University*

BREFM-584

Stock Market Liquidity and Capital Structure Adjustments

Mao-Wei Hung | *National Taiwan University*

Ju-Fang Yen | *National Taipei University*

BREFM-587

Effect of Country Institutional Factors on Bank Privatization Performance

Po-Hsin Ho | *National Taipei University*

Chih-Yung Lin | *Yuan Ze University*

Wei-Che Tsai | *National Sun Yat-sen University*

Environment Research

Room A

2014/09/05 Friday 10:30-12:30

Session Chair: *Prof. Garth Irons*

GCAEER-197

Assessment Study of Environmental Impact of the Primary Aluminium Industry Development in Indonesia using MFA and LCA

Asri Suciati | *Toyohashi University of Technology*

Naohiro Goto | *Toyohashi University of Technology*

GCAEER-150

Is Shrinking City in Taiwan?

Chu Kuan-Chen | *National Cheng-Kung University*

Cheng Hsien-Hsin | *National Cheng-Kung University*

GCAEER-152

Is High Density Urban Form Promoting Sustainability? Case Study in Taipei

Chih-Chia Chang | *National Chengchi University*

GCAEER-157

Who Stays, Who Leaves An Analysis of the Factors for Students' Movestay decision after graduation

Yun Wei Zhang | *National Cheng Kung University*

GCAEER-158

A Comparative Numerical Study for Thermal Comfort, Ventilation and CO2 Concentration in a Room under Various Radiant Cooling Panel Positions

Pornput Jarumongkonsak | *University of Nottingham*

Yuying Yan | *University of Nottingham*

GCAEER-177

Urban Renewal Study the Effect of Amending the Law for Private Sector Investment

Wei Lun Liao | *National Cheng Kung University*

GCAEER-209

Operations Assessment for Greening Supply Chain: A Case of Rubber Glove Supply Chain

Tuanjai Somboonwiwat | *King Mongkut's University of Technology Thonburi*

Tuangyot Supeekit | *Mahidol University*

GCAEER-196

Oil Washing of Waste Silicon Mud

Ching Hwa Lee | *Da-Yeh University*

Ying Wen Chang | *Da-Yeh University*

You Shiang Lin | *Da-Yeh University*

Juu En Chang | *National Cheng Kung University*

Wei Sheng Chen | *National Cheng Kung University*

Marketing/Economics

Room B

2014/09/05 Friday 10:30-12:15

Session Chair: *Prof. Chi-Yin Wu*

BREFM-585

Examine the Effect of National Events on International Tourism Demand: Evidence in the East Asian Region

Chi-Yin Wu | *Feng Chia University*

Ching-Yu Lin | *Feng Chia University*

GHTMM-63

Integrated Manufacturer-Retailer Closed-loop Inventory System Considering with Recycling and Integration

S. J. Cheng | *Chung Yuan Christian University*

Jonas C.P. Yu | *Takming University of Science and Technology*

H.M. Wee | *Chung Yuan Christian University*

BREFM-642

The Impact of β -agonist Residues on Imported Beef Demand in Taiwan

Yun-Ju Chen | *National Chung Hsing University*

Hsiao-I Kuo | *Chaoyang University of Technology*

Chia-Jung Tsai | *National Chung Hsing University*

BREFM-653

Identifying Factors Affecting Consumers' Behaviors on Thai Silk Products

Walailak Atthirawong | *King Mongkut's Institute of Technology Ladkrabang*

BREFM-763

Studies on Chinese Farmland Use Rights Transfer System

Lanjian Chen | *Yunnan University*

Lanxi Hu | *Nanjing Forestry University*

BREFM-755

Implications of Macroprudential Policy and Market Structure For Bank Industry Performance (An Empirical Evidence of Emerging Countries)

Tumpak Silalahi | *Bank Indonesia*

BREFM-159

Export, FDI, Outsourcing: Two-Stage Decisions of Production and Distribution

Ho-Chyuan Chen | *National Chung Cheng University*

Poster Sessions

Biotechnology Engineering

Room C

2014/09/04 Thursday 10:00-11:00

IBCELC-534

Structure-function Relationships among Various Exo- and Endo-Arabinan-degrading Enzymes

Tae-Jip Kim | *Chungbuk National University*

Myoung-Uoon Jang | *Chungbuk National University*

IBCELC-521

Enzymatic Production of L-arabinose via Simultaneous Treatments of Exo- and Endo-arabinosyl Hydrolases

Gyo Won Oh | *Chungbuk National University*

Jung-Hyun Kang | *Chungbuk National University*

Eun-Hee Lee | *Chungbuk National University*

Myoung-Uoon Jang | *Chungbuk National University*

Min-Jae Lee | *Chungbuk National University*

Byung Sam Son | *Chungbuk National University*

Nam Soo Han | *Chungbuk National University*

Tae-Jip Kim | *Chungbuk National University*

IBCELC-532

Gene Cloning and Enzymatic Characterization of *Bacillus Halodurans* Endo-(1,5)-Alpha-L-Arabinanase B with Extra C-Terminal Domain

Byung Sam Son | *Chungbuk National University*

Eun-Hee Lee | *Chungbuk National University*

Myoung-Uoon Jang | *Chungbuk National University*

Jung-Hyun Kang | *Chungbuk National University*

Min-Jae Lee | *Chungbuk National University*

Nam Soo Han | *Chungbuk National University*

Tae-Jip Kim | *Chungbuk National University*

IBCELC-531

Enzymatic Characterization of Acetyl Xylan Esterase from *Bacillus Halodurans* and Synergistic Effects on Xylan Degradation

Min Jeong Kim | *Chungbuk National University*

Gyeong-Hwa Nam | *Chungbuk National University*

Myoung-Uoon Jang | *Chungbuk National University*

Gyo Won Oh | *Chungbuk National University*

So-Won Lee | *Chungbuk National University*

Tae-Jip Kim | *Chungbuk National University*

IBCELC-530

Action Modes of Alpha-L-arabinofuranosidase Type B Cloned from *Bacillus Halodurans*

Min-Jae Lee | *Chungbuk National University*

Jung-Hyun Kang | *Chungbuk National University*

Myoung-Uoon Jang | *Chungbuk National University*

Gyo Won Oh | *Chungbuk National University*

Byung Sam Son | *Chungbuk National University*

Nam Soo Han | *Chungbuk National University*

Tae-Jip Kim | *Chungbuk National University*

IBCELC-529

Enzymatic Production of Linear or Branched Arabinooligosaccharides from Sugar Beet Arabinan by using Endo-Acting Arabinanases

Eun-Hee Lee | *Chungbuk National University*

Jung-Hyun Kang | *Chungbuk National University*

Myoung-Uoon Jang | *Chungbuk National University*

Gyo Won Oh | *Chungbuk National University*

Byung Sam Son | *Chungbuk National University*

Min-Jae Lee | *Chungbuk National University*

Nam Soo Han | *Chungbuk National University*

Tae-Jip Kim | *Chungbuk National University*

IBCELC-465

Synthetic Biomolecules for Metal Recovery

Shen-Long Tsai | *National Taiwan University of Science and Technology*

Ian Sofian Yunus | *National Taiwan University of Science and Technology*

Teng-Yao Shih | *National Taiwan University of Science and Technology*

IBCELC-641

Taiwan High-Scope Program of Ministry of Science and Technology: Development Teaching Kits for DNA Extraction Based on Inquiry Instructional Strategy

Chih-Hui Yang | *I-Shou University*

Yu-Shuang Chou | *I-Shou University*

Kun-Tsan Lin | *National Nanke International Experimental High School*

Chih-Chiang Pan | *National Taitung Girls' Senior High School*

Hsiang-Yin Lin | *Kaohsiung Municipal Ruesiang High School*

Keng-Shiang Huang | *I-Shou University*

Jen-Jyun Jheng | *I-Shou University*

Ching-Ju Hsiao | *I-Shou University*

Ming-Han Wen | *I-Shou University*

IBCELC-622

Magnetic Pycnopus Sanguineus-loaded Alginate Composite Beads for Removing Malachite Green Dye

Chih-Hui Yang | *I-Shou University*

Ming-Cheng Shih | *I-Shou University*

Han-Chen Chiu | *I-Shou University*

Keng-Shiang Huang | *I-Shou University*

IBCELC-541

Synthesis and Affinity Measurements of Anti-HSA Coated Nanoparticles

Zoltán Nagy | *University of Debrecen*

Dávid Nyul | *University of Debrecen*

Melinda Andrási | *University of Debrecen*

István Bányai | *University of Debrecen*

András Pungor | *University of Debrecen*

IBCELC-45

In-vitro Hemodynamic and Hemorheologic Study related with Circulatory Disorders: from Simple Sinusoidal Vessel Model to Rear Angiogram Data & from Plasma Flow to Blood Flow

Ho Seong Ji | *Pusan National University*

Myung Jin Kang | *KIBO Technolgoy Fund*

Kyung Chun Kim | *Pusan National University*

GHTMM-57

**Activity Diversification in Ski areas: Demand-side driven Strategy or Omen of ‘Last
Chance Tourism’**

Kurt W. Ackermann | *Hokusei Gakuen University Junior College*

Life Science

Room C

2014/09/04 Thursday 13:30-14:30

IBCELC-437

Effect of Rhamnolipids on Strengthening the Effectiveness of Antimicrobial Compounds

Alena Cejkova | *Institute of Chemical Technology in Prague*

Olga Schreiberova | *Institute of Chemical Technology in Prague*

Eva Kvasnickova | *Institute of Chemical Technology in Prague*

Richard Jezdik | *Institute of Chemical Technology in Prague*

Jan Masak | *Institute of Chemical Technology in Prague*

IBCELC-502

Novel Diagnostic Method for Swine Pregnancy Detection

Min-Chen Li | *National University of Kaohsiung*

Wen-Jen Yang | *National University of Kaohsiung*

IBCELC-462

Enantiomeric Analysis of Serine and Threonine as Their Levofloxacin Derivatives by Fluorimetric Liquid Chromatography

Tang-Chia Chung | *Kaohsiung Medical University*

Cheng-Ying Yu | *Kaohsiung Medical University*

Hwang-Shang Kou | *Kaohsiung Medical University*

Hsin-Lung Wu | *Kaohsiung Medical University*

IBCELC-473

Comprehensive Reconstitution therapy of Severely Damaged Sciatic Nerve using Skeletal Muscle-derived Multipotent Stem Cells

Tetsuro Tamaki | *Tokai University School of Medicine*

Hiroyuki Hashimoto | *Tokai University School of Medicine*

Shuichi Soeda | *Tokai University School of Medicine*

Nobuyuki Nakajima | *Tokai University School of Medicine*

Kosuke Saito | *Tokai University School of Medicine*

Kenei Nakazato | *Tokai University School of Medicine*

Yoshiyasu Uchiyama | *Tokai University School of Medicine*

Maki Hirata | *Tokai University School of Medicine*

IBCELC-669

Optimization of the Dietary Fiber Extraction from Cassava Pulp and Mercury Bioaccessibility using an in vitro Digestion

Natta Kachenpukdee | *Suranare University of Technology*

Charles Santerre | *Purdue University*

Mario G. Ferruzzi | *Purdue University*

Ratchadaporn Oonsivilai | *Suranare University of Technology*

IBCELC-533

Favorable Reconstitution of Complete Rupture in the Musculotendinous Junction using “Bio-bond” Composed by Skeletal Muscle-derived Multipotent Stem Cell

Sheet-pellets

Hiroyuki Hashimoto | *Tokai University School of Medicine*

Tetsuro Tamaki | *Tokai University School of Medicine*

Maki Hirata | *Tokai University School of Medicine*

Yoshiyasu Uchiyama | *Tokai University School of Medicine*

Joji Mochida | *Tokai University School of Medicine*

IBCELC-511

Anti-inflammatory Effect of Ethanolic Extract from Sargassum Horneri on Lipopolysaccharide-induced Macrophage Activation via the Regulation of NF- κ B Pathway

Mi Eun Kim | *Chosun University*

Jun Sik Lee | *Chosun University*

IBCELC-510

Myricetin Induces Cell Death of Human Colon Cancer Cells via BAX/BCL2-Dependent Pathway

Mi Eun Kim | *Chosun University*

Jun Sik Lee | *Chosun University*

IBCELC-660

Characterizing Vulnerability in Functional Brain Networks for Early 20s Healthy Subjects

Jia-Hong Sie | *National Yang-Ming University*

Yuo-Hsien Shiau | *National Chengchi University*

IBCELC-673

Evaluation of Functional and Antihypertensive Properties of Protein Hydrolysate from *Achatina Fulica* Snail Foot Muscle

Huang, Ya-Ling | *National Kaohsiung Marine University*

Economics / Finance & Accounting /

MIS-Management Information System / Management /

Marketing / Education

Room C

2014/09/04 Thursday 15:00-16:00

BREFM-139

Cancer-screening Adopting Behavior of Medical Professionals in Taiwan

Fen-Fen Huang | *Oriental Institute of Technology*

Yi-Horng Lai | *Oriental Institute of Technology*

Hsieh-Hua Yang | *Oriental Institute of Technology*

Chi-Jen Hsieh | *Oriental Institute of Technology*

Chih-Dao Chen | *Far Eastern Memorial Hospital*

BREFM-158

The More Self-Controlled, The Less Capital Reward?

Yi-Yuan Liu | *Oriental Institute of Technology*

Po-Kai Huang | *Aletheia University*

BREFM-171

A Hybrid Metaheuristic for the Optimization of Drilling Path on IC Substrate

Chi-Yang Tsai | *Yuan Ze University*

Chi-Ting Lin | *Yuan Ze University*

Yi-Chen Wang | *Yuan Ze University*

BREFM-179

Junior High School Students' Conceptions of Airflow and Wind

Jiay-Un Yang | *National Dong Hwa University*

Chih-Hsiung Ku | *National Dong Hwa University*

BREFM-561

The Effects of Cram Schooling on Ethnic Learning Achievement Gap: Evidence from Elementary School Students in Taiwan

Yu-Chia Liu | *National Dong Hwa University*

He Huang | *National Dong Hwa University*

Chunn-Ying Lin | *National Dong Hwa University*

BREFM-708

Is Corporate Governance a Moderator in the Relationship between Corruption and Economic Growth?

Tzu-Yun Tseng | *Feng Chia University*

Nien-Su Shih | *Feng Chia University*

BREFM-562

Manpower Agency's impact on Functions and Performance

Yu-Chieh Lin | *Institute of Human Resource Management National Sun Yat-Sen University*

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

Yi-Chung Huang | *National University of Kaohsiung*

Loh-Yu Huang | *University of Central Arkansas*

BREFM-580

How Visible Are the "Lighthouses"? Elite Status of German Universities and Attractiveness for International Students

Donata Bessey | *Yonsei University*

BREFM-625

Consumer Perception of Nudity in Apparel Print Advertising: A comparison Study between Chinese and Taiwanese Consumers

Chui-Chu Yang | *National Taiwan Normal University*

Shin Liao | *National Taiwan Normal University*

BREFM-652

Computer Self-efficacy in the Intention and Behavior Relation

Lin Chihung | *University of Kang Ning*

Roan Jinsheng | *National Chung Cheng University*

Cheng Yu-Han | *University of Kang Ning*

Chemical Engineering/Applied Engineering/

Electrical and Electronics Engineering

Room C

2014/09/05 Friday 09:30-10:30

IBCELC-488

Removal of Basic Red 46 from Aqueous Solution by Biosorption onto Modified Product of Sugar Beet Pulp

Nurdan Bahar | *Tunceli University Faculty of Engineering*

Hamdi Soner Altundoğan | *Firat University Faculty of Engineering*

Fikret Tümen | *Firat University Faculty of Engineering*

IBCELC-585

Modified Sugar Beet Pulp with Sodium Hydroxide and Epichlorohydrin: An Effective Biosorbent for Removal of Basic Violet 7 from Aqueous Solution

Nurdan Bahar | *Tunceli University Faculty of Engineering*

Fikret Tümen | *Firat University Faculty of Engineering*

IBCELC-516

The Effect of Washing on Preparation of BaTiO₃ by Hydrothermal Method

Jung Ryoel Kim | *Dongguk University*

Se Hyoung Park | *Dongguk University*

Dong Hwan Seo | *Dongguk University*

Jung Hoon Park | *Dongguk University*

IBCELC-515

Influence of Substitution of Co with Ti on the Oxygen Adsorption Properties of La–Sr–Co–Fe–O Perovskite-type Oxide

Jung Ryoel Kim | *Dongguk University*

Hong Joo Lee | *Dongguk University*

Won Chan Hwang | *Dongguk University*

Jung Hoon Park | *Dongguk University*

IBCELC-549

Thermal Oxidation of Sludge and Biomass at a Oxy-fuel Circulating Fluidized Bed Reactor

Ha-Na Jang | *Yonsei University*

Seung-Ki Back | *Yonsei University*

Jin-Ho Sung | *Yonsei University*

Jeong-Hun Kim | *Yonsei University*

Yong-Chil Seo | *Yonsei University*

IBCELC-500

Chemoenzymatic Synthesis and Antioxidant activity of Policosanly Phenolates

Wang Zhiqiang | *Institute of Natural Medicine, Hallym University*

Kang Beom Gu | *Department of Food Science and Nutrition, Hallym University*

Jang Young Soo | *Department of Food Science and Nutrition, Hallym University*

Park Yoon Ha | *Institute of Natural Medicine, Hallym University*

Kwon Shin Hwa | *Institute of Natural Medicine, Hallym University*

Lee Myung Jun | *Department of Food Science and Nutrition, Hallym University*

Woo Ji Won | *Department of Food Science and Nutrition, Hallym University*

Lee Soo Kyeong | *Institute of Korea Nutrition, Hallym University*

Park Jong Hyuk | *Institute of Natural Medicine, Hallym University*

Lim Soon Sung | *Institute of Natural Medicine, Hallym University*

IBCELC-677

Electrochromic Device Based on A Composite of TiO₂ Nanoparticles and Polyaniline Derivatives

Shih Ming Chen | *National University of Kaohsiung*

Chien Hsin Yang | *National University of Kaohsiung*

GCAEER-149

Developing and Filed Test of a Low-cost Unmanned Aerial Vehicle for using the Digital Image Correlation Method

Wen-Pei Sung | *National Chin-Yi University of Technology*

Ming-Hsiang Shih | *National Chi Nan University*

Han-Wei Hsiao | *National University of Kaohsiung*

Shih-Heng Tung | *National University of Kaohsiung*

GCAEER-203

Effect of Ammonia on the Absorption of Sulfur Dioxide into Aqueous

2-Amino-2-methyl-1-propanol

Soo-Bin Jeon | *Pusan National University*

Jun-Hyung Cho | *Pusan National University*

Sin-Hae Park | *Pusan National University*

Kwang-Joong Oh | *Pusan National University*

GCAEER-154

A Current-Fed Full-Bridge Converter for High Step-Up Voltage Ratio Applications

Cheng-Tao Tsai | *National Chin-Yi University of Technology*

Chin-Tsung Hsieh | *National Chin-Yi University of Technology*

Jye-Chau Su | *National Chin-Yi University of Technology*

Yi-Yu Chen | *National Chin-Yi University of Technology*

GCAEER-208

An Interleaved PFC with Average Current Control Method for a Low-distortion Sinusoidal Input Line Current

S.-Y. Tseng | *Chang Gung University*

K.-Y. Lo | *Chang Gung University*

F.-H. Yu | *Chang Gung University*

Life Science/Environment Research/

Agriculture Economics

Room C

2014/09/05 Friday 11:00-12:00

IBCELC-719

FAP Activation Mediates Immunosuppression in Human Oral Squamous Cell Carcinomas

Hua Wang | *SUN Yat-sen University*

Pan Jiang | *SUN Yat-sen University*

Haixia Zhang | *SUN Yat-sen University*

Hua Wanf | *SUN Yat-sen University*

Yan Zhang | *SUN Yat-sen University*

IBCELC-537

Validating Tooth Extraction in Rat as an Experimental Model for Post-surgical Dental Pain

Kazi Ahsan Jamil | *Universiti Teknologi MARA (UiTM)*

Ban Kahtan Ibrahim | *Universiti Teknologi MARA (UiTM)*

Siti Hajar Hamzah | *Universiti Teknologi MARA (UiTM)*

IBCELC-518

The Detection of Anti-biofilm Activity of Cell Products of Probiotic Lactobacillus Strains

V. Hola | *Masaryk University and St. Anne's University Hospital*

F. Ruzicka | *Masaryk University and St. Anne's University Hospital*

IBCELC-517

Capillary Electrophoretic Techniques - Useful Tool for Detection and Quantification of Probiotic Enterococci

V. Hola | *Masaryk University, Faculty of Medicine*

F. Ruzicka | *Masaryk University, Faculty of Medicine*

V. Horka | *Institute of Analytical Chemistry, Academy of Sciences of the Czech Republic*

IBCELC-514

Anti-adipogenic Activity of Maackia Amurensis on 3T3-L1 Cells

Jang Young Soo | *Department of Food Science and Nutrition, Hallym University*

Kang Beom Gu | *Department of Food Science and Nutrition, Hallym University*

Wang Zhi Qiang | *Department of Food Science and Nutrition, Hallym University*

Park Yoon Ha | *Institute of Natural Medicine, Hallym University*

Kwon Shin Hwa | *Institute of Natural Medicine, Hallym University*

Lee Myung Jun | *Department of Food Science and Nutrition, Hallym University*

Woo Ji Won | *Department of Food Science and Nutrition, Hallym University*

Lee Soo Kyeong | *Institute of Korea Nutrition, Hallym University*

Park Jong Hyuk | *Institute of Natural Medicine, Hallym University*

Lim Soon Sung | *Institute of Natural Medicine, Hallym University*

GCAEER-169

Development of Web GIS-based Bias Correction System of Future Climate Change Scenarios

Donghyuk Kum | *Kangwon National University*

Chunhwa Jang | *Kangwon National University*

Jae E Yang | *Kangwon National University*

Kyoung Jae Lim | *Kangwon National University*

GCAEER-148

The Development of Escape Mask for Escaping from Fire Site

Jung-Chin Liang | *Ling Tung University*

Jee-Ray Wang | *Chienkuo Technology University*

Mei-Li You | *Chienkuo Technology University*

Kun-Li Wen | *Chienkuo Technology University*

GCAEER-167

Varying Impact of Climate Change on Snow-dependent Leisure Activities in Hokkaido, Japan and the Austrian Tyrol

Kurt W. Ackermann | *Hokusei Gakuen University Junior College*

GCAEER-175

Analysis of Effects on Soil Erosion Reduction of Various Best Management Practices

Dong June Lee | *Kangwon National University*

Donghyuk Kum | *Kangwon National University*

Jeong Ho Han | *Kangwon National University*

Jae E Yang | *Kangwon National University*

Kyoung Jae Lim | *Kangwon National University*

GCAEER-206

Characteristics of Adsorption and Desorption of Heat Stable Salts in Amine-based CO₂ Capture Process Using Anion Exchange Resins

Dong June Lee | *Pusan National University*

Donghyuk Kum | *Pusan National University*

Jeong Ho Han | *Pusan National University*

Jae E Yang | *Pusan National University*

GCAEER-173

Characteristics of Alkali-activated Blast-furnace Slag for Carbon Dioxide Absorption

Hae-Young An | *Sejong University*

Cheolwoo Park | *Kangwon National University*

Intai Kim | *Myungji University*

Hyun-Jong Lee | *Sejong University*

JiHyeon Song | *Sejong University*

GCAEER-228

Study on the Drying for Sewage Sludge by Microwave and Heating Element

Yong-Woo Jeon | *Korea Testing Laboratory*