

Conference Program

March 13-16, 2018
Taipei, Taiwan

APICENS

Asia- Pacific Conference on Engineering & Natural
Sciences

APCESP

Asia- Pacific Conference on Education, Social Studies
and Psychology

APICENS

Asia- Pacific Conference on Engineering & Natural Sciences

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APCESP

Asia- Pacific Conference on Education, Social Studies and Psychology

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Welcome Message



Local Host

Dr. Shen-Long Tsai

Associate Professor

Department of Chemical Engineering

National Taiwan University of Science and Technology

Dear Colleagues,

On behalf of the organizing committee, it is our great pleasure to invite you to the joint conference of APICENS and APCESP, which will be held at Grand Victoria Hotel in Taipei, Taiwan during 13-15 March 2018.

It is proud that the joint conference of APICENS and APCESP, has been held annually without any interruption. The involvement of all participants in the APCESP render it more influence and helpful for building up international relations and collaborations. With such an elated tradition, we are sure that the joint conference of APICENS and APCESP, will be a suitable platform for exchanging information, sharing ideas and developing knowledge of current issues.

I would like to thank all the members of organizing committee, the conference sponsors and the staff who contribute their time and efforts to prepare the joint conference of APICENS and APCESP, Also, I would like to extend my thanks to the keynote and invited speakers, as well as those participants who will be sharing their work and experience through presentations and posters.

We sincerely hope you will enjoy the conference and your stay in the exciting environment of Taipei, Taiwan. Looking forward to seeing you soon.

Thank You

Dr. Shen-Long Tsai

General Information for Participants

■ **Registration**

The registration desk will be situated on the **3F** at the **Grand Victoria Hotel** during the following time:

14:00-16:00 Tuesday, March 13, 2018

08:15-16:00 Wednesday, March 14, 2018

08:15-14:00 Thursday, March 15, 2018

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 to summarize key issues in each topic.



Sandals or Slippers



Tank Top



Shorts

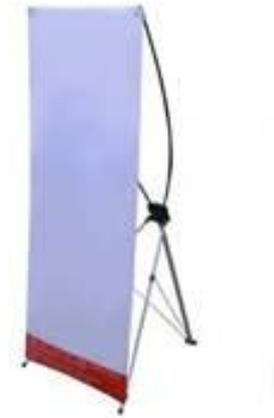
■ **Preparation for Oral Presentations**

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:

1. Home-made Poster(s)
2. Material: not limited, can be posted on the canvases
3. Recommended poster 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) |
| | |

International Committees

International Committee of Natural Sciences

| | | |
|------------------------|---|--------------|
| Abdelwahab Elghareeb | Cairo University | Egypt |
| Abdmalik Serboutel | University of physical and sports activities Djelfa | Algeria |
| Abhishek Shukla R.D. | Engineering College Technical Campus, Ghaziabad | India |
| Ahmad Zahedi | James Cook University | Australia |
| Alexander M. Korsunsky | Trinity College, Oxford | UK |
| Almacen | Philippine Association of Maritime Training Centers | Philippines |
| Amel L. Magallanes | Capiz State University | Philippines |
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| Anthony D. Johnson | Seoul National University of Science & Technology | Korea |
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| Baolin Wang | University of Western Sydney | Australia |
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| Chang Ping-Chuan | Kun Shan University | Taiwan |
| Chee Fah Wong | Universiti Pendidikan Sultan Idris | Malaysia |
| Chee-Ming Chan | Universiti Tun Hussein Onn Malaysia | Malaysia |
| Cheng, Chun Hung | The Chinese University of Hong Kong | Hong Kong |
| Cheng-Min Feng | National Chiao Tung University | Taiwan |
| Cheuk-Ming Mak | The Hong Kong Polytechnic University | Hong Kong |
| Chia-Ray Lin | Academia Sinica | Taiwan |
| Chih-Wei Chiu | National Taiwan University of Science and Technology | Taiwan |
| Chikako Asada | Tokushima University | Japan |
| Chil Chyuan Kuo | Ming Chi University of Technology | Taiwan |
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| Ching-An Peng | University of Idaho | USA |
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| Deok-Joo Lee | Kyung Hee University | South Korea |
| Din Yuen Chan | National Chiayi University | Taiwan |

| | | |
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| Fariborz Rahimi | University of Bonab | Iran |
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| Gi-Hyun Hwang | Dongseo University | South Korea |
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| Kuang-Hui Peng | National Taipei University of Technology | Taiwan |
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| Lai Mun Kou | SEGi University | Malaysia |
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| Lee, Jae Bin | Mokpo National University | South Korea |

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| | | |
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| Wen-Hua Tarng | National Tsing Hua University | Taiwan |

International Committee of Social Sciences

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| Kim Sangho | Ritsumeikan Asia Pacific University | Japan |
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| Mehryar Nooriafshar | University of Southern Queensland | Australia |
| Michael Kao | Chang Gung University | Taiwan |
| Micheal Kon | Aletheia University | Taiwan |

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| Ozgul Keles | Aksaray University | Turkey |
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| Prasong Tanpichai | Kasetsart University | Thailand |
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| Rajesh U. Chheda | Shri. MD Shah Mahila College | India |
| Ramayah Thurasamy | Universiti Sains Malaysia | Malaysia |
| Reem Abed Almotaleb Abuiyada | Dhofar University | Palestine |
| 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 |
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| SHANG Songmin | The Hong Kong Polytechnic University | Hong Kong |
| Shujen Lee Chang | Asia University | Taiwan |
| Soon SONG | Wonkwang University | South Korea |
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| 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 |

| | | |
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| 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

| | |
|-------------------------|--|
| Ki Ho Yun | <i>Chungbuk National University</i> |
| Hidetoshi Sakamoto | <i>Doshisha University</i> |
| Hsiuhong Sherry Liang | <i>Foreign Language Center</i> |
| Young-Jin Shin | <i>PaiChai University</i> |
| Anna Hoi Nga Ng | <i>Caritas Institute of Higher Education</i> |
| Prem Parajuli | <i>Mississippi State University</i> |
| Berta Esti Ari Prasetya | <i>Universitas Kristen Satya Wacana</i> |
| Yanhua Wu | <i>Nanyang Technological University</i> |
| Maria Staton | <i>Ball State University</i> |
| Genji Hotta | <i>National Institute of Technology</i> |
| Noriko Imai | <i>Kochi University</i> |
| Hsiu-Lien Lu | <i>National Tsing Hua University</i> |

Conference Venue Information

Grand Victoria Hotel

Address: No.168, Jingye 4th Rd., Zhongshan Dist., Taipei City, Taiwan

Phone: +886-2-8502-0000

Fax: +886-2-8502-0005

Transportation

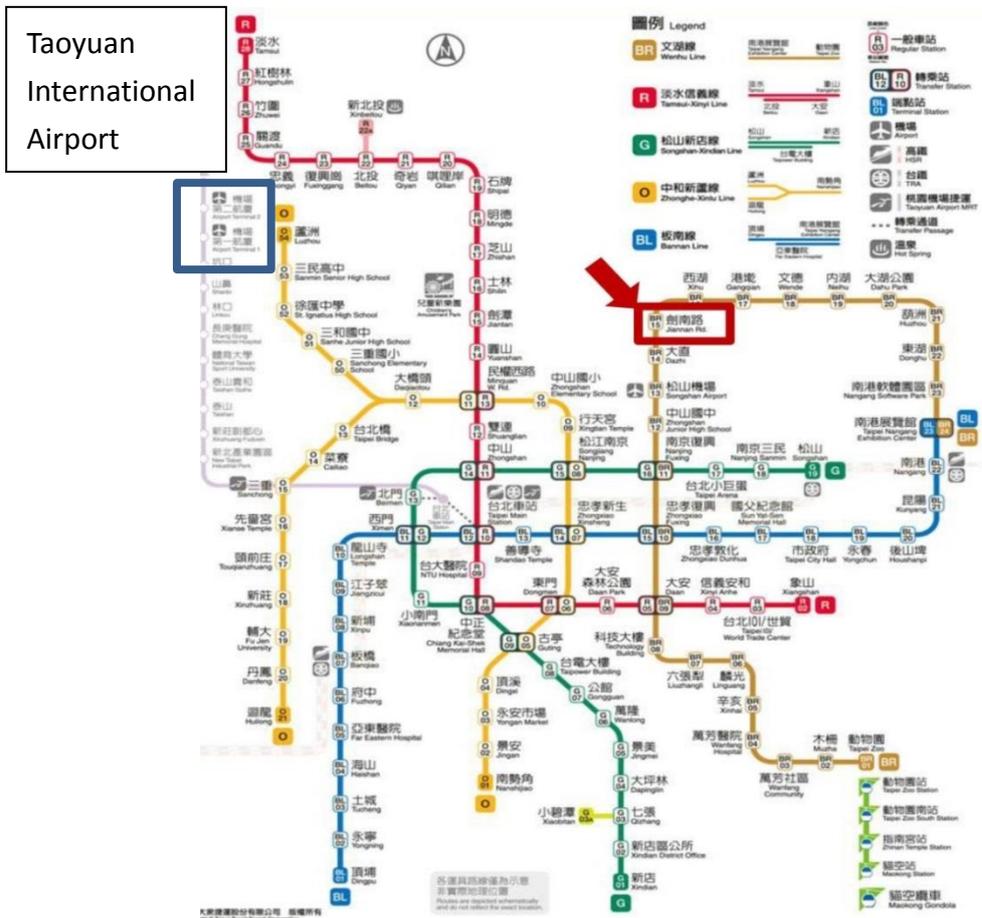
1. By bus

Dozens of bus lines pass the Grand Victoria Hotel including lines 21, 222, 247, 267, 286, 287, 620, 646, 72, 902, Red 2, Brown 16, Blue 26, Blue 7 and others. Get off at the Miramar stop and we are only a 3-minute walk away.

2. By MRT

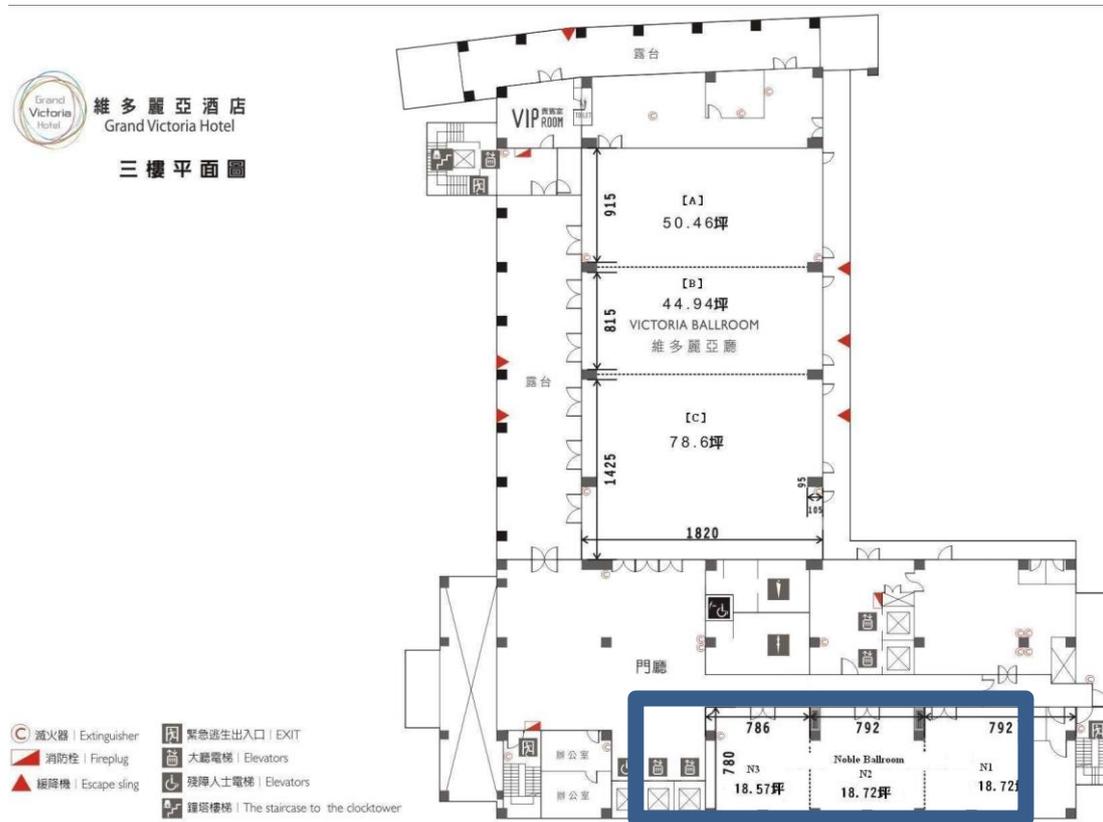
On the Taoyuan MRT, take to Taipei Main Station.

And connect on Taipei MRT, take the Wenhua Line to Jiannan Road and exit the Number 3 Exit then walk to the hotel.



Grand Victoria Hotel

The 3rd floor plan



Registration: Noble 3 and Pre- Function Area, 3F

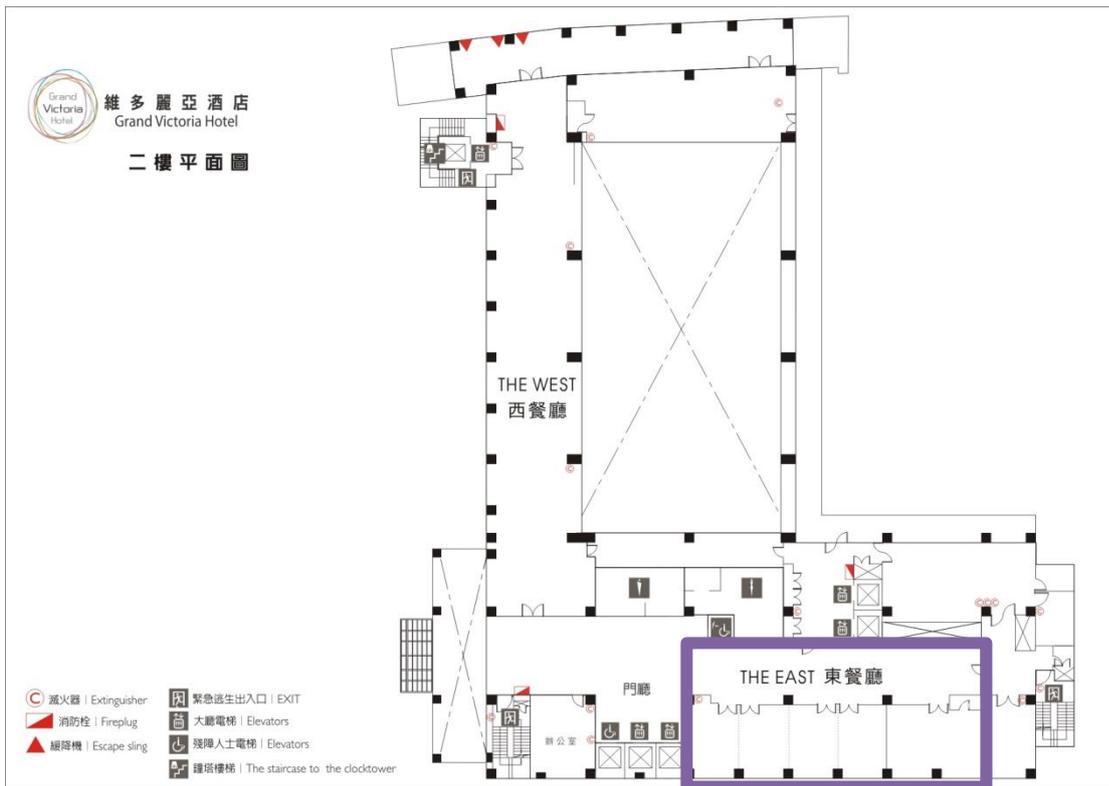
Oral Session: Noble 1 and Noble 2, 3F

Poster Session: Noble 3, 3F

Tea Break & Networking: Pre-Function Area, 3F

Lunch: 2F Xi Garden

Lunch: 2F Xi Garden



Conference Schedule

| Tuesday, March 13, 2018 | | |
|-------------------------|-------------------------|-------------|
| 14:00-16:00 | Pre-Registration | Noble 3, 3F |

| Wednesday, March 14, 2018 | | |
|---------------------------|---|--------------------------|
| Oral Session | | |
| Time | Schedule | Venue |
| 08:15-16:00 | Registration | Pre-Function Area, 3F |
| 08:45-10:15 | Economics (1) / Business & Management | Noble 1 |
| | Mechanical Engineering and Technology(1) / Electrical and Electronic Engineering(1) | Noble 2 |
| 10:15-10:30 | Tea Break & Networking | Pre-Function Area, 3F |
| 10:30-12:00 | Opening Reception | Noble1 |
| | <u>Natural Sciences Keynote Speech</u> <ul style="list-style-type: none"> • <u>Dr. Cheng, Kuan-Chen</u> <u>Topic:</u> From tradition to modernity: a role of fermentation and bioprocessing in Agriculture | |
| | <u>Social Sciences Keynote Speech</u> <ul style="list-style-type: none"> • <u>Prof. Krishna K. Govender</u> <u>Topic:</u> Higher Education in the Twenty-First Century: The South African Scenario | |
| 12:00-13:15 | Lunch Time | Xi Garden,2F |
| 13:15-14:45 | Education(2) | Noble 1 |
| | Computer Engineering and Technology / Information Engineering and Technology / Civil Engineering | Noble 2 |
| 14:45-15:00 | Tea Break & Networking | Pre-Function Area, 3F |

Wednesday, March 14, 2018

Oral Session

| Time | Schedule | Venue |
|--------------------|--|---------|
| 15:00-16:30 | Psychology(1) / Social Studies | Noble 1 |
| | Environmental Engineering / Biological Engineering / Chemistry | Noble 2 |

Wednesday, March 14, 2018

Poster Session (Noble 3)

| Time | Schedule |
|--------------------|--|
| 13:30-14:30 | Poster Sessions (1) Education / Psychology / Business & Management / Social Studies / Biological Engineering |
| 14:40-15:40 | Poster Sessions (2) Electrical and Electronic Engineering / Information Engineering and Technology / Materials Science and Engineering / Chemical Engineering / Earth Sciences / Civil Engineering/Environmental Engineering / Computer Engineering and Technology / Mechanical Engineering and Technology |

Thursday, March 15, 2018

Oral Session

| Time | Schedule | Venue |
|--------------------|---|--------------------------|
| 08:15-14:00 | Registration | Pre-Function Area, 3F |
| 08:45-10:15 | Psychology(2) | Noble 1 |
| | Mechanical Engineering and Technology(2) / Electrical and Electronic Engineering(2) | Noble 2 |
| 10:15-10:30 | Tea Break & Networking | Pre-Function Area, 3F |

Thursday, March 15, 2018

Oral Session

| Time | Schedule | Venue |
|--------------------|--|--------------|
| 10:30-12:00 | Education(3) | Noble 1 |
| | Mechanical Engineering and Technology(3) / Materials Science and Engineering | Noble 2 |
| 12:00-13:15 | Lunch Time | Xi Garden,2F |
| 13:15-14:45 | Education(4) | Noble 1 |
| | Education(5) | Noble 2 |

Friday, March 16, 2018

Farewell Socializing Event(Optional)

Grand Victoria Hotel Lobby

08:30-16:00

Natural Sciences Keynote Speech

Noble 1, 3rd Floor

10:30–12:00, Wednesday, March 14, 2018

Topic: From tradition to modernity: a role of fermentation and bioprocessing in Agriculture



Associate Prof. Cheng, Kuan-Chen
National Taiwan University

Summary of Keynote Speech

Fermentation is a metabolic process that consumes sugar in the absence of oxygen. The products are organic acids, gases, or alcohol. The history of fermentation in Asia can be traced back to 2,700 BC. Nowadays, bioconversion could be a better terminology to describe what microorganisms contribute for human beings. Current presentation will give the whole picture of what microbial bioconversion for in the area of reuse of agricultural resources, alcoholic beverages, medical mushroom applications, bio-derived materials, senior's functional food design and bioreactor engineering. Moreover, future visions of fermentation technique in the fields of biotechnology, agriculture and food, and pharmaceutical industry will also be discussed.

Brief Introduction of Associate Prof. Cheng, Kuan-Chen

Education

Ph.D., Agricultural and Biological Engineering, Pennsylvania State University, University Park, PA, USA (2006-2010)

M.S., Microbiology & Biochemistry, National Taiwan University, Taipei, Taiwan. (2003-2005)

B.S., Agriculture Chemistry, National Taiwan University, Taipei, Taiwan. (1997-2001)

Professional Appointments

Associate Professor, Graduate Institute of Food Science & Technology/Institute of Biotechnology, National Taiwan University, Taipei, Taiwan. (2015/8~)

Consultant of China Medical University Hospital, Taichung, Taiwan (2016/6~)

Adjunct Assistant Professor, Department of Food Science, National Pingtung University of Science and Technology, Pingtung, Taiwan (2015/2~2015/8)
Assistant Professor, Graduate Institute of Food Science & Technology/
Institute of Biotechnology, National Taiwan University, Taipei, Taiwan.(2011/8~2015/7)
Council member of Taiwan Associate for Food Science and Technology(2016/1~2017/12)
Council member of Taiwan Associate for Food Protection (2016/2~2018/2)

Research Interests

Biomedical materials; Alcoholic beverages; Gut microbiota; Senior functional foods

Publications

Liu, CT§; Erh, MH§; Lin, SP; Lo, KY; Chen, KI; Cheng, KC*; Enrichment of Two Isoflavone Aglycones in Black Soymilk by *Rhizopus oligosporus* NTU 5 in a Plastic Composite Support Bioreactor. 2016. *J Sci Food Agric.* (doi: 10.1002/jsfa.7569)

Hsieh, SC§; Liu, JM§; Pua, XH; Ting, Y; Hsu, RJ; Cheng, KC*; Optimization of *Lactobacillus acidophilus* cultivation using taro waste and evaluation of its biological activity. 2016. *Appl Microb Biotechnol.* 100(6):2629-2639.

Liu, JM§; Yu, TC§; Lin, SP; Hsu, RJ; Cheng, KC*; Evaluation of kojic acid production in a repeated-batch PCS biofilm reactor. 2016. *J Biotechnol* 218(20):41-48.

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Lin, SP§; Liu, CT§; Hsu, KD; Hung, YT; Shih TY; Cheng, KC*; Production of bacterial cellulose with various additives in PCS rotating disk bioreactor and its material properties analysis. 2016. *Cellulose* 23(1):367-377.

Social Sciences Keynote Speech

Noble 1, 3rd Floor

10:30–12:00, Wednesday, March 14, 2018

Topic : Higher Education in the Twenty-First Century: The South African Scenario

KRISHNA K. GOVENDER, PhD

Executive Dean and Head: AAA School of Advertising



Summary of Keynote Speech

The twenty-first century has brought with it profound challenges to the nature, values, and control of higher education in the South Africa and the world. Societal expectations and public resources for higher education are undergoing fundamental shifts. Changes both within and outside the academy are altering its character – its students, faculty, governance, curriculum, functions, and very place in society. Since change in higher education “is the rule, rather than the exception,” this paper outlines the implications of the dynamics of the changes on the Higher Education landscape in general and in South Africa in particular, since current changes are transforming higher education to greater extent than before.

The paper will look at the impact of major external influences on higher education, particularly overnment and market pressures, and in turn, the impact of resulting institutional decisions in matters such as program choices, tuition charges, and the conduct of research on outcomes of higher education for society at large. The five issues addressed here discuss changing answers by the public, policy makers and higher education to central questions about the value, role and control of higher education: Who pays for higher education? Who benefits? Who decides who should benefit, what should be offered, and what the outcomes should be? By necessity, of course, other significant issues are omitted from this discussion.

Education(1) / Business & Management

Wednesday, March 14, 2018 08:45-10:15 Noble 1

Session Chair: *Prof. Ki Ho Yun*

APCESP-0015

A Defense of W. B. Yeats as a Playwright

Ki Ho Yun | *Chungbuk National University*

APCESP-0006

Customer Reactions toward Corporate Social Responsibility (CSR) Initiatives

Rojanasak Chomvilailuk | *University of the Thai Chamber of Commerce*

Ken Butcher | *Griffith University*

APCESP-0016

Generative Linguistics and the Analysis of SVOC Constructions in English

Seung-Man Kang | *Chungbuk National University*

APCESP-0058

Exploring the Customer Repurchase Intentions of Online Shopping

Hsiang-Ting Su | *Shu-Te University*

APCESP-0059

International Students' Adjustment through Self-Efficacy: Finding a Way to Succeed in College

Daryl Coleen Gonzales Pimentel | *De La Salle University*

APCESP-0070

Higher Education Rates in Terms of Returns to Education

Sohyeon Bae | *Michigan State University*

Dongsook Han | *Michigan State University*

Mechanical Engineering and Technology (1) / Electrical and Electronic Engineering(1)

Wednesday, March 14, 2018 08:45-10:15 Noble 2

Session Chair: *Prof. Hidetoshi Sakamoto*

APICENS-0035

Characteristics Evaluation of CFRP Structure using Simple Lamination Model for New Product Design Method

Yoshifumi Ohbuchi | *Kumamoto University*

Tomoki Mori | *Kumamoto University*

Hidetoshi Sakamoto | *Doshisha University*

APICENS-0031

The Effect of Introducing CoO/NiO Multi-Layer Structure into ReRAM on Resistive Switching Characteristics

Katsuyuki Ochiai | *Tottori University*

Satoru Kishida | *Tottori University*

Kentaro Kinoshita | *Tokyo University of Science*

APICENS-0034

Development of Furnace Wall Inspection System

Munetaka Ryu | *Kumamoto University*

Hidetoshi Sakamoto | *Doshisha University*

Yoshifumi Ohbuchi | *Kumamoto University*

Tsuyoshi Yoshida | *The Institute of Professional Engineers*

Eiji Nakamachi | *Doshisha University*

APICENS-0044

Voltage-Mode Four-Phase Quadrature Oscillator Using Voltage Differencing Inverting Buffered Amplifiers and Grounded Passive Components

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

Qi-Geng Huang | *Ming Chi University of Technology*

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

Yu-Nan Chen | *IBASE Technology Incorporation*

APICENS-0048

Single-Input Five-Output Voltage-Mode Universal Filter Using Single DDCCTA

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

Po-Yu Chen | *Ming Chi University of Technology*

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

Yu-Nan Chen | *IBASE Technology Incorporation*

Education(2)

Wednesday, March 14, 2018 13:15-14:45 Noble 1

Session Chair: *Prof. Hsiuhong Sherry Liang*

APCESP-0022

A Comparison of American-Born Chinese and Taiwanese College Students in Approaches to Studying

Hsiuhong Sherry Liang | *Foreign Language Center*

APCESP-0023

Exploring Lived Experiences on Underachievement among College Students

Luzviminda Laoyan Uy | *De La Salle University*

APCESP-0024

A Study on Local Wisdoms of Phranakhon Rajabhat University, Bangkok, Thailand

Pichamon Jamrassri | *Phranakhon Rajabhat University*

Sasithorn Soparat | *Phranakhon Rajabhat University*

Ubon Leawwarin | *Phranakhon Rajabhat University*

APCESP-0049

An Exploration of Social Inequality and Achievement Gaps in Asian Countries: Using PISA Test Scores

Dongsook Han | *Michigan State University*

APCESP-0067

Formulating an Inter-Professional Coaching Protocol for Paraprofessionals and Preschool Teachers: Consolidating Evidence from Quality Implementations in Hong Kong

Chung Wa Naska Law | *The Hong Kong Institute of Vocational Education*

Computer Engineering and Technology / Information

Engineering and Technology / Civil Engineering

Wednesday, March 14, 2018 13:15-14:45 Noble 2

Session Chair: *Prof. Young-Jin Shin*

APICENS-0039

A Study on Development of E-Privacy Policy Index to Supply Safe IoT Service

Young-Jin Shin | *PaiChai University*

APICENS-0017

Development of a Training Program towards an Effective Safety Practices

Orlean G. Dela Cruz | *Polytechnic University of the Philippines*

Guillermo O. Bernabe | *Polytechnic University of the Philippines*

APICENS-0060

Study on Intuitive Shape Deformation Method using Tablet Terminal

Takayasu Fuchida | *Kagoshima University*

APICENS-0066

A Proposal of Recommendation Method of Predicates for Open Data using Statistical Method

Tadanori Hisanaga | *Kagoshima University*

Takayasu Fuchida | *Kagoshima University*

Bo Chen | *Kagoshima University*

Psychology (1) / Social Studies

Wednesday, March 14, 2018

15:00-16:30

Noble 1

Session Chair: *Prof. Anna Hoi Nga Ng*

APCESP-0018

Effects of Childhood Sexual Abuse on Sexual Self-Concept and Psychological Well-Being

Anna Hoi Nga Ng | *Caritas Institute of Higher Education*

Kam Weng Boey | *Caritas Institute of Higher Education*

APCESP-0019

Gender Difference in Sexual Self-Concept and Psychological Well-Being in Emerging Adulthood

Anna Hoi Nga Ng | *Caritas Institute of Higher Education*

Kam Weng Boey | *Caritas Institute of Higher Education*

APCESP-0052

Generation Theory and the New Feminist Activism in China

Qi Wang | *University of Southern Denmark*

APCESP-0055

Emotional Intelligence, Spiritual Intelligence and Mental Health

Arita W. Y. Chan | *The Education University of Hong Kong*

APCESP-0072

The Economic Role of Urban Poor Women: A View from Iloilo City, Philippines

Fely David | *Central Philippine University*

Claire Anne D. Jardenil | *Central Philippine University*

Environmental Engineering / Biological Engineering /

Chemistry

Wednesday, March 14, 2018 15:00-16:30 Noble 2

Session Chair: *Prof. Prem Parajuli*

APICENS-0005

Watershed Characterization, Hydrological and Water Quality Modeling: Big Sunflower River Watershed in Mississippi

Prem Parajuli | *Mississippi State University*

APICENS-0023

Simulating Typhoon Waves by Data Assimilation Using Neural Networks

Shih-Chieh Tai | *National Cheng Kung University*

Ching-Jer Huang | *National Cheng Kung University*

Yang-Ming Fan | *National Cheng Kung University*

APICENS-0042

Valorization of Latex Serum from *Hevea Brasiliensis* with Biological Agents to Produce High Value Added Products

Muhamamd Yusuf Abduh | *Institut Teknologi Bandung*

Elisa Frederica Siburian | *Institut Teknologi Bandung*

EMuhammad Gidry Abdurrazak | *Institut Teknologi Bandung*

Mochamad Firmansyah | *Institut Teknologi Bandung*

Robert Manurung | *Institut Teknologi Bandung*

APICENS-0047

Polyacrylate-Based Vaccine Delivery System

Mariusz Skwarczynski | *University of Queensland*

Istvan Toth | *University of Queensland*

Psychology (2)

Thursday, March 15, 2018

08:45 -10:15

Noble 1

Session Chair: *Prof. Berta Esti Ari Prasetya*

APCESP-0065

Parenting Patern of Dual-Career Parents and Their Parenting Practice in Improving Empathy to Prevent Bullying Act among Children in Salatiga Indonesia

Berta Esti Ari Prasetya | *Universitas Kristen Satya Wacana*

Heru Astikasari Setya Murti | *Universitas Kristen Satya Wacana*

APCESP-0021

Depression, Anxiety, and Stress among Filipino College Students: Relationship and Difference

Susana A. Estanislao | *De La Salle University*

APCESP-0034

Item Development on Social Awareness and Relationship Management Competencies of College Students - An Initial Validation

Chona T. Chin | *De La Salle University*

APCESP-0035

Development and Validation of Self-Awareness and Self-Management Competence Scale

Archibald S. Siason | *De La Salle University*

APCESP-0045

Academic Performance and Self-Efficacy of College Scholars: Basis for Intervention Program

Julse V. Zantua | *De La Salle University*

Mechanical Engineering and Technology (2) / Electrical and Electronic Engineering (2)

Thursday, March 15, 2018

08:45 -10:15

Noble 2

Session Chair: *Prof. Yanhua Wu*

APICENS-0058

A Time-Resolved Tomo-PIV Study of Stall Delay on the Blade of a Horizontal-Axis Wind Turbine

Guosheng He | *Nanyang Technological University*

Yanhua Wu | *Nanyang Technological University*

APICENS-0024

Development of High Velocity Flight Object Launcher with High-Speed Rotation Function

Shota Fukuzaki | *Kumamoto University*

Hidetoshi Sakamoto | *Doshisha University*

Yoshifumi Ohbuchi | *Kumamoto University*

Hidehiro Hata | *Kumamoto University*

Daisuke Inao | *Kumamoto University*

APICENS-0026

Evaluation of Power Assistance Chair by Motion and Myoelectric Analysis

Yoshifumi Ohbuchi | *Kumamoto University*

Shogo Itoyama | *Kumamoto University*

Ryosuke Izutsu | *Kumamoto University*

Hidetoshi Sakamoto | *Doshisha University*

Kimihide Tsukamoto | *National Institute of Technology*

Hiroshi Harada | *Kumamoto University*

APICENS-0037

Solar Hydrolysis Hydrogen Production of the Gas Purification Research

Der-Ray Huang | *National Chiao Tung University*

Jen-Hsien Kuan | *National Chiao Tung University*

Wei-Hsiang Chiang | *National Chiao Tung University*

Chun-Ming Liao | *National Chiao Tung University*

Zheng-Yu Li | *National Chiao Tung University*

Education (3)

Thursday, March 15, 2018

10:30-12:00

Noble 1

Session Chair: *Prof. Maria Staton*

APCESP-0011

International Scholars in US Higher Education: A Case Study of Ball State University

Maria Staton | *Ball State University*

APCESP-0025

Enhancing Pre-Service Students' Achievements and Attitude through the Use of STEM Activities on the Astronomy Learning Unit

Apichart Payakkhin | *Phranakhon Rajabhat University*

APCESP-0027

Student Self-Assessment: An Empirically Grounded Framework

Lay Khee Tan | *Temasek Polytechnic*

Gin Hin Loh | *Temasek Polytechnic*

Pengchi Zhang | *Temasek Polytechnic*

Hoon Bee Kathryn Goh | *Temasek Polytechnic*

APCESP-0032

Model of Activities to Enhance Self –Esteem for Student Teachers of Phranakhon Rajabhat University

Piyada Junwanna | *Phranakhon Rajabhat University*

Jintana Na Songkhla | *Phranakhon Rajabhat University*

Niphathorn Sunnongmuang | *Phranakhon Rajabhat University*

APCESP-0033

Development of an Instructional Model Based on Cased-Based Learning and Critical Thinking to Promote Creative Problem Solving Ability of Student Teachers in Social Studies Program

Pichart Kaewpuang | *Phranakhon Rajabhat University*

Mechanical Engineering and Technology (3) / Materials Science and Engineering

Thursday, March 15, 2018

10:30-12:00

Noble 2

Session Chair: *Prof. Genji Hotta*

APICENS-0065

Study on Engineering Analysis of the Work Action in Unsteady Work

Genji Hotta | *National Institute of Technology*

Yoshifumi Ohbuch | *Kumamoto University*

Hidetoshi Sakamoto | *Doshisha University*

APICENS-0022

Development of Nanoionics Type Variable Capacitor for High Frequency Wireless Communication and Its Electrical Properties

Ten Sugimoto | *Tokyo University of Science*

Tohru Higuchi | *Tokyo University of Science*

APICENS-0067

Photocatalytic Overall Water Splitting on Metal-Ion-Doped CeO₂

Honghao Hou | *Nagaoka University of Technology*

Masami Nishikawa | *Nagaoka University of Technology*

Nobuo Saito | *Nagaoka University of Technology*

Education (4)

Thursday, March 15, 2018

13:15-14:45

Noble 1

Session Chair: *Prof. Noriko Imai*

APCESP-0026

Feedback as a Crucial Factor in Maximizing the Efficacy of Dictogloss-J within the EFL Context

Noriko Imai | *Kochi University*

Rie Sugiura | *Tokai University*

Hideyuki Takashima | *Tokyo University of Foreign Studies*

APCESP-0028

The Integration of Thai Local Wisdom in Schools

Sasithorn Soparat | *Phranakhon Rajabhat University*

Ubon Leawwarin | *Phranakhon Rajabhat University*

Pichamon Jamrassri | *Phranakhon Rajabhat University*

APCESP-0030

The Effect of Using Curriculum Cycle on EFL Learning Attitudes

Pichamon Jamrassri | *Assumption University*

Education (5)

Thursday, March 15, 2018

13:15-14:45

Noble 2

Session Chair: *Prof. Hsiu-Lien Lu*

APCESP-0037

The Effects of Using Curriculum Standards in Planning and Teaching: A Longitudinal Study

Hsiu-Lien Lu | *National Tsing Hua University*

APCESP-0039

Development of 6P Activities Model to Enhance Skills and Attitude in English Language Learning for Student Teachers in Early Childhood Education Program

Piyalak Akkraratana | *Phranakhon Rajabhat University*

Supawan Lekvilai | *Phranakhon Rajabhat University*

Piyada Junwanna | *Phranakhon Rajabhat University*

Achara Eubsooksiri | *Phranakhon Rajabhat University*

Dararat UthaiPAYAK | *Phranakhon Rajabhat University*

APCESP-0051

The Effect of Weight Training Combined with Shooting Training Program upon the Distance Shooting Ability in Basketball

Aditep Na Phatthalung | *Phranakhon Rajabhat University*

APCESP-0043

Factors Affecting the Career Preference Motivation among Technical and Vocational Students in Jacobo School of Trades and Arts, Bin City, Lagu, Philippines

Ernesto L. Bastida | *Trimex Colleges*

Matthew E. Millar | *Trimex Colleges*

James Kent C. Torres | *Trimex Colleges*

Poster Sessions (1)

**Education / Psychology / Business & Management / Social
Studies / Biological Engineering**

Wednesday, March 14, 2018 13:30-14:30 Noble 3

APCESP-0007

Using Spectator Sports to Trigger Interest in Learning English

Ying-Lan Lin | *Asia University*

Li-Shiue Gau | *Asia University*

Jong-Chae Kim | *Fairleigh Dickinson University*

APCESP-0017

The Production of the Variants of German Suffix <-en> by Japanese Learners

Mayako Niikura | *Kokugakuin University*

Takahito Shinya | *Otsuma Woman's University*

APCESP-0038

Using Contextual Project to Facilitate Programing Learning

Chiung-Fang Chiu | *National Chi Nan University*

APCESP-0046

**A Novel Strategy to Identify Patient Education Topics for Medical Marijuana in Cancer
Pain Management by Using Social Media Data**

Jia-Wen Guo | *University of Utah*

Rebecca Wilson | *University of Utah*

APCESP-0068

The Effects of Discussion on the Performance of Academic Writing

Noriko Kano | *Takushoku University*

APCESP-0036

Validation of an ASD- and AD/HD-Related Support Needs Scale in a Graduate Student Sample

Hoshiko Yamauchi | *Nagoya University*

Masanori Sugioka | *Nagoya University*

Kenichi Suzuki | *Nagoya University*

APCESP-0044

The Mediating Effect of Self-Compassion on Association Process Recording and Self-Focus: A Pretest-Posttest Study

Yusuke Kurebayashi | *Kyorin University*

Yusuke Harada | *Kyorin University*

APCESP-0066

Effect of the Oxides as a Pinning Center Doping to the Bi-2212 Single Crystal

Hiroya Imao | *National Institute of Technology, Matsue College*

APCESP-0056

From Consumer Resistance to Youth Civic Engagement: An Example of the Sunflower Student Movement in Taiwan

Chi-Cheng Luan | *National Chiao Tung University*

APCESP-0053

Cultural Determinants of Cancer Fatalism and Disparity in Cancer Prevention Behaviors

Hye Kyung Kim | *Nanyang Technological University*

APICENS-0049

RNA-Seq and miRNA Target Analysis at Various Stages of Root-Knot Nematode

Bum-Soo Hahn | *National Institute of Agricultural Sciences*

Mahipal Singh Kesawat | *National Institute of Agricultural Sciences*

Vimalraj Mani | *National Institute of Agricultural Sciences*

Chang-Muk Lee | *National Institute of Agricultural Sciences*

Joon-Soo Sim | *National Institute of Agricultural Sciences*

APICENS-0052

Stabilization of Freeze-Dried Lactic Acid Bacteria

Kiyoshi Kawai | *Hiroshima University*

Shuto Mikajiri | *Hiroshima University*

Yoshio Hagura | *Hiroshima University*

APICENS-0053

Investigation of Functional Candidate Metabolites from *Capsicum* Core Collection using LC-MS Based Metabolomics

Joon-Soo Sim | *National Institute of Agricultural Sciences*

Ji-Seon Kim | *National Institute of Agricultural Sciences*

Yongsoo Choi | *Korea Institute of Science and Technology*

Chang-Muk Lee | *National Institute of Agricultural Sciences*

Bum-Soo Hahn | *National Institute of Agricultural Sciences*

APICENS-0074

Isolation and Characterization of Lactic Acid Bacteria from Korean Kimchi and Cow Feces as Possible Starter for Functional Beverage

Min Yoo | *Keimyung University*

Hyemin Yoon | *Keimyung University*

Poster Sessions (2)

**Electrical and Electronic Engineering / Information
Engineering and Technology / Materials Science and
Engineering / Chemical Engineering / Earth Sciences / Civil
Engineering / Environmental Engineering / Computer
Engineering and Technology / Mechanical Engineering and
Technology**

Wednesday, March 14, 2018 14:40-15:40 Noble 3

APICENS-0016

Algorithm Research Based on Fragmentation and Package of GSE

Ning Li | *Beijing University of Posts and Telecommunications*

Xing Qi Lao | *Beijing University of Posts and Telecommunications*

Deng Zhong Liang | *Beijing University of Posts and Telecommunications*

APICENS-0036

Characteristics of PEMFC Prepared by Dispersion Superconductive Carbon Black

Der-Ray Huang | *National Chiao Tung University*

Wei-Hsiang Chiang | *National Chiao Tung University*

Jen-Hsien Kuan | *National Chiao Tung University*

Zheng-Yu Li | *National Chiao Tung University*

Chun-Ming Liao | *National Chiao Tung University*

APICENS-0046

A Study of Automatic Optimized Overlapping Fingerprints Segmentation

Chi-Hsiao Yih | *Tamkang University*

Kuo-Ming Hung | *Kainnan University*

Chien-Chun Fu | *Tamkang University*

Ze-Guang Lin | *Tamkang University*

APICENS-0062

Gallium Nitride Photodiode with Zinc Oxide Quantum Dot Coating Layer

Won-Ho Jang | *Hongik University*

Jong-Ik Kang | *Hongik University*

Hyuck-Kee Sung | *Hongik University*

Hyungtak Kim | *Hongik University*

Chang-Yeol Han | *Hongik University*

Heesen Yang | *Hongik University*

Seong Ran Jeon | *Korea Photonics Technology Institute*

Eugene Chong | *Agency for Defense Development*

Ho-Young Cha | *Hongik University*

APICENS-0073

Suppression of Signal Contamination using Cancel System for Monostatic W band FMCW Radar

Toshiaki Takano | *Chiba University*

APICENS-0025

Detect of Keyboard Hijacking by Sound Feedback

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

APICENS-0038

Queen's Crape-Myrtle Tree Bottom Ash for Stoneware Pottery Glaze

Sekporn Tansriparaparsiri | *Valaya Alongkorn Rajabhat University*

APICENS-0068

Selective Photocatalytic CO₂ Reduction to Methane on Pt-Loaded Sm-Doped CeO₂

Hideto Furuno | *Nagaoka University of Technology*

Masami Nishikawa | *Nagaoka University of Technology*

Kazunori Sato | *Nagaoka University of Technology*

Nobuo Saito | *Nagaoka University of Technology*

APICENS-0018

Separation of p-Xylene and Ethylbenzene Using Tri-Chlorobenzene

Young Han Kim | *Dong-A University*

APICENS-0045

Estimation of Seismic Ground Motions and Seismic Intensity Probabilities in Taipei City, Taiwan

Kun-Sung Liu | *Kao Yuan University*

APICENS-0027

Experimental Study of Detection of Peeling Sound inside Rubber using AE Method

Yuma Kawasaki | *Ritsumeikan University*

Akihiro Tanaka | *Ritsumeikan University*

APICENS-0032

Determination of the Content of Hazardous Heavy Metals on *Lycopersicon Esculentum* Mill. Grown around a Contaminated Area

Napattaorn Buachoon | *Valaya Alongkorn Rajabhat University*

APICENS-0050

Learning Acceleration of Q-Learning for Air Conditioner Controlling Based on Users' Sensory

Noritaka Shigei | *Kagoshima University*

Kota Sakamoto | *Kagoshima University*

APICENS-0054

Effects of Hole Rotation on Flow Mixing Characteristics in a Micro Combustor with Square Air Holes

Won Hyun Kim | *Kyungpook National University*

Seon Myeong Park | *Kyungpook National University*

Tae Seon Park | *Kyungpook National University*

