Conference Program

January 19-21, 2016 Cebu, Philippines

APCSSM

Asia-Pacific Conference on Social Sciences and

Management

ICSPE

International Conference on Society, Psychology and

Education

ICEIT

International Conference on Engineering and

Information Technology

ICBENS

International Conference on Biological Engineering

and Natural Sciences

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Asia-Pacific Conference on Social Sciences and Management

ISBN 978-986-5654-12-2

ICSPE

International Conference on Society, Psychology and Education

ISBN 978-986-5654-15-3

ICEIT

International Conference on Engineering and Information Technology

ISBN 978-986-5654-11-5

ICBENS

International Conference on Biological Engineering and Natural Sciences

ISBN 978-986-5654-13-9

General Information for Participants	4
International Committees	5
International Committee of APCSSM	6
International Committee of ICSPE	7
International Committee of ICEIT	9
International Committee of ICBENS	10
Special Thanks to Session Chairs1	11
Conference Venue Information	12
Conference Schedule	13
Natural Sciences Keynote Speech (1)1	15
Natural Sciences Keynote Speech (2)1	19
Social Sciences Keynote Speech2	20
Oral Sessions2	22
Education (1) / Psychology2	22
Civil Engineering / Environmental Engineering / Electrical & Electronic	
Engineering (1)	24
Management (1) / Education (2)2	25
Law/Society2	27
Mechanical Engineering/Aeronautics & Aerospace2	28
Material Science and Engineering2	29
Electrical & Electronic Engineering (2)/ Power & Energy Engineering	31
Biological Engineering/Natural Science	33
Finance & Economics / Management (2)	35
Poster Session (1)	37
Civil Engineering / Psychology / Education / Management / Communication3	37
Poster Session (2)	łO
Biological Engineering/ Computing Engineering and Technology4	10
Poster Session (3)	13
Chemical Engineering / Natural Science4	13
Poster Session (4)	ŀ7
Environmental Engineering / Material Science and Engineering / Mechanical	
Engineering / Electrical & Electronic Engineering4	ŀ7

General Information for Participants

■ Registration

The registration desk will be situated on the **Ground Floor** at the **Cebu City Marriott Hotel** during the following time:

08:30-16:00 Tuesday, January 19, 2016

08:30-16:00 Wednesday, January 20, 2016

■ 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.



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 after their presentations or 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:

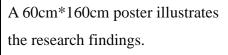
- 1. X-frame display & base fabric canvases (60cm×160cm)
- 2. Adhesive tapes or binder clips

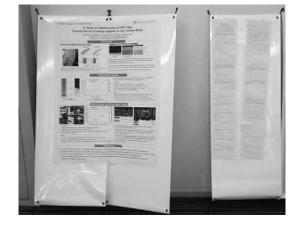
Materials Prepared by the Presenters:

- 3. Home-made poster(s)
- 4. Material: not limited, can be posted on the canvases
- 5. Recommended poster size: 60cm*160cm









- 1. Wider than 60cm (left)
- 2. Copy of PowerPoint slides in A4 papers (right)





International Committees

International Committee of APCSSM

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Kancheepuram

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Kancheepuram

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Hamed M. El-Shora, Botany Department, Mansoura University, Egypt Huabei Jiang, Biomedical Engineering, The University of Florida, USA

Special Thanks to Session Chairs

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Tae-Jun Ha Kwangwoon University

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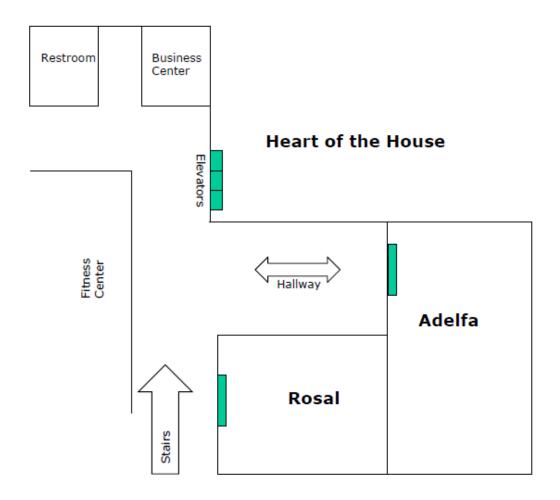
Conference Venue Information

Cebu City Marriott Hotel

Cardinal Rosales Avenue, Cebu City, 6000, Philippines

Phone: +63 32 411 5800 Fax: +63 32 411 5801

Floor Map (Ground Floor)



Conference Schedule

Tuesday, January 19, 2016 Oral Presentation(Ground Floor)				
Time	Schedule	Venue		
08:30-16:00	Registration	Pre Function Area		
	Education (1) / Psychology	Adelfa		
09:00-10:30	Civil Engineering / Environmental Engineering /	Rosal		
	Electrical & Electronic Engineering (1)			
10:30-10:50	Tea Break & Networking	Pre Function Area		
10:50-11:00	Welcome Speech	Rosal		
11.00 12.00	Social Science Keynote Speech	Adelfa		
11:00-12:00	Natural Science Keynote Speech (1)	Rosal		
12.00 12.20	2:00-13:30 Lunch Time	Garden Café		
12:00-13:30		(1 st floor)		
12.20 15.00	Management(1) / Education(2)	Adelfa		
13:30-15:00	Natural Science Keynote Speech (2)	Rosal		
15:00-15:30	Tea Break & Networking	Pre Function Area		
15:30-17:00	Law / Society	Adelfa		
15:30-17:00	Mechanical Engineering / Aeronautics & Aerospace	Rosal		

Tuesday, January 19, 2016 Poster Session(Ground floor – Pre Function Area)		
Time	Schedule	
09:30-10:30	Poster Session (1)	
	Civil Engineering / Psychology / Education / Management /	
	Communication	
10:30-11:30	Poster Session (2)	
	Biological Engineering/ Computing Engineering and Technology	
14:00-15:00	Poster Session (3)	
	Chemical Engineering / Natural Science	
15:30-16:30	Poster Session (4)	
	Environmental Engineering / Material Science and Engineering /	
	Mechanical Engineering / Electrical & Electronic Engineering	

Wednesday, January 20, 2016 Oral Presentation(Ground Floor)				
Time	Information	Venue		
08:30-16:00	Registration	Pre Function Area		
09:00-10:30	Material Science and Engineering	Rosal		
10:30-10:50	Tea Break & Networking	Pre Function Area		
10:50-12:00	Electrical & Electronic Engineering(2) / Power & Energy Engineering	Rosal		
12:00-13:30	Lunch Time	Garden Café (1 st floor)		
13:30-15:00	Biological Engineering / Natural Science	Rosal		
15:00-15:30	Tea Break & Networking	Pre Function Area		
15:30-17:00	Finance & Economics / Management(2)	Rosal		

Thursday, January 21, 2016
Optional Tour
(Ticket & Reservation Only)

Natural Sciences Keynote Speech (1)

Rosal

11:00-12:00 Tuesday January 19, 2016

Topic: The Roles of HEIs in Nation Building in the 21st Century

Dr. Editha L. Magallanes, Ed. D. SUC President III
Capiz State University
Fuentes Drive, Roxas City



Abstract:

In the 21st century, the roles of Engineering and Information Technology appear to be immense, perhaps infinite and expanding. And our resources are just finite. Hence, everyone should contribute in the politics of development stretching out all resources and capabilities, especially in the educational system focusing on Engineering and Information Technology.

Engineering is one of the important aspects of nation building. Back in industrial revolution, and the introduction of technologies had a deep impact on the social, economic and cultural conditions of times. Some say that inventors defined the wealth of a nation, while engineers played a role in building and upholding a nation, and together both, pushing the world forward. On the other hand, the word technology refers to that branch of knowledge, which deals with scientific and industrial methods and their practical use in industry. This explains why some refer to it simply as "practical science." It is in this sense that Information technology can simply be defined as the information revolution, a combination of massive increase in the world's inventory of information and the technical development of the means to cope with it. Information Technology, therefore allows engagement and manipulation of humankind in broader and deeper ways.

What are then the vital roles of Higher Education Institutions in promoting Engineering and Information Technology?

HEIs execute conventionally the quadro-dimensional functions, which are the AIRE-Pro (Administration, Instruction, Research, and Extension and Production).

Administration

- Good Governance
- Service and Commitment

Transparency

Instruction

- Accredited Curricular Programs
- Accredited Faculty in Specialized Skills
- · Massive Faculty and Staff Development
- Student Development
- · ISO Recognized
- Producing High Percentage in Licensure Examinations
- E-Lib

Research

- Strong Involvement in Local and International Research (Faculty and Students)
- International Publications (Refereed Journals)
- Production of Institutionalized Research Publications

Extension and Production

- Mobile Technology School (iSchool)
- International and Local Linkages
- Exchange Students and Faculty Programs
- Gawad Kalinga
- Agricultural Productions (Coconut, Mushroom, Mangroves, Bamboo, and Upland Rice Plantations)
- Fishery Productions (Milkfish & Prawns)
- IPR on Research Productions/Outputs/Utility Models

Aside from those quadro-dimensional functions, HEIs must also internalize the values of Service, Excellence, Commitment, and Compassion in delivering quality education and producing globally competitive graduates who will serve as vehicles in fostering innovations and development. These graduates must possess the 21st century skills such as media and information technology skills, language and communication skills, learning and innovations (critical and thinking skills, reasoning and analytical skills), life and career skills.

With rapid developments in Engineering and Information Technology, the globalization trend in the present world is an irreversible one. They either join or move along with the rest of the world to be immensely benefited by humanity.

Brief Introduction of Dr. Editha Lavezores Magallanes:

Editha Lavezores Magallanes, Ed. D., is the 2nd president of Capiz State University (CAPSU) appointed on July 7, 2008 and is on her second term, chosen as member of the Advisory Council of the World Education Congress and named Dangal ng Bayan by the Civil Service Commission in 2012.

As president of CAPSU, Dr. Magallanes has linked with various government and non-government organizations to expand available scholarship grants to improve access to the University for students of all economic backgrounds, advocated for institutionalized research culture and strengthened the culture of advancement and excellence which resulted to surges in enrolment particularly in the Main Campus, awards and recognition from regional, national and international fora, and massive upgrading of academic ranks by way of NBC 461 of the faculty and reclassification of items for non-teaching personnel. Under her stewardship, she has continually ingrained among administrators and faculty the value of accreditation such that in 2013, AACCUP named CAPSU as Top 4 Performer based on the assessed programs both accredited and under candidate status with 51 programs being accredited and Top 6 Performer on the number of accredited programs from Level I-IV among 110 SUCs in the country. She has broadened the University's international reach, raised the profile of agriculture, industrial technology and engineering, and education on campus, and promoted collaboration across academic disciplines and administrative units as she delivered her promise to the University during a period of significant challenges including the herculean task of rebuilding the University after the onslaught of Super typhoon Yolanda.

A cooperating teacher and instructor in Food and Meat Processing for the National Agricultural Skills Training Program, Dr. Magallanes was one of the active and energetic personalities in the Home Economics Department, contributing to its growth and transformation to a wide-ranging college for scholarly and innovative practices, known for its multidisciplinary focus and the exploration of new knowledge. Insights gained from her research pursuits were shared through the various extension programs she organized for the community in cooperation with GOs and NGOs such as the Canadian Executive Service Organization, the Municipality of Pontevedra, the Capiz Provincial Government, the Roxas City Government, DILG, DTI, DOST and the Archdiocese of Capiz.

Raised in Merida, Leyte, Magallanes went on to attend Merida Elementary School and Merida Institute and graduated valedictorian from both institutions. She received her bachelor's degree from Visayas Agricultural College (now Visayas State University) in 1974, with honors in Agricultural Homemaking Education, and her master's degree (1983) in Teaching Vocational Education from Western Visayas College of Science and Technology and doctoral degree (1991) in Home Economics from the Philippine Women's University.

She is the sole author of 32 research outputs which are published in the PSPC College of Education Research Journal, College of Education Faculty Journal, Graduate School Research Journal, PWU Graduate Journal, The Philippine Educational Forum, PHEA Journal, and the Philippine Journal of Home Economics. She has also prepared 17 teaching guides especially for the Graduate School.

Dr. Magallanes is hardwork-personified in her rise to the top post as embodied by the following appointments to the different academic ranks throughout her career; secondary school teacher (1974-1982), Instructor I (1983-1984), Assistant Professor IV (1984-1989),

Assistant Professor VI (1989-1992), Associate Professor III (1992), Professor II (1992-1997), and Professor VI (1998-2007). She has been accredited as University Professor in July 2007 and one of the first two professors from the institution to receive such honor.

Dr. Magallanes has served the institution in various capacities before her appointment to the top post. To name a few, she has been an Officer-in-Charge of the PSPC School Guest House (1974-1981), School Adviser of the FAHP (1975-1978), Regional Adviser of the FAHP (1977-1978), Director of the Farmer's Training Center (1983-1985 & 1991-1993), Chairman for the Home Economics Department (1985-1988 & 1991-1993), Associate Director for Research (1992-1993), Associate Dean of the Graduate School (1993-1995), Campus Dean (1995-1996), Dean of the College of Education (1999-2001), President of the Faculty Federation and Member of the PSPC Board of Trustees (1999-2001), Chairman of the Teacher Education Department (2000-2001), Vice-President for Academic Affairs (2001-2004), and Vice-President for Administration and Finance (2004-2008).

She has served as chairman of the Kaguyuman Resource Development and Management Foundation, Inc. (1992 to date), NGO Network and Livelihood Program Committee of the Municipality of Pontevedra (1994-1998), and Capiz Orchids Development Cooperative (1994 to date), and treasurer of the Philippine Association of State Universities and Colleges' Federation for Faculty Trustees (1999-2001). She is a member of the Philippine Association of Graduate Education, Philippine Association of Vocational Educators, Philippine Association for Teacher Education, Philippine Home Economics Association, Graduate Education Association of Colleges and Universities in the Philippines and the National Council of Innovators.

Her awards include Outstanding Contribution to Education during the 3rd Asia's Best B-Schools Awards in Singapore by CMO Asia and World Brand Congress, and the Exemplary Leader Award during the Asian Education Leadership Awards by the World Education Congress in the United Arab Emirates in 2012; Inspirational Leader Award during the World Education Congress Global Awards for Excellence in Education, Leadership and Teaching in India in 2013; Outstanding Administrator Award during the 16th Biennial Conference Workshop and International Research Symposium by the Philippine Association of Agri-vironment Educators and Entrepreneurs, Inc.; and the Women's Leadership Achievement Award by the World Women Congress in India in 2014 and one of Capiz's Outstanding Women by the Borres Youth Leadership, Inc. in 2015.

Dr. Magallanes is married to Arturo Magallanes, a retired professor of CapSU – Pontevedra Campus. They have four children, Amel, Reuel, Jeziel and Clyde. Amel just finished his doctorate in General Science from Centro Escolar University while Reuel is now based in Canada. Jeziel and Clyde are lawyers.

Natural Sciences Keynote Speech (2)

Rosal

13:30-15:00 Tuesday January 19, 2016

Topic: Issues on the Application of Amorphous Oxide Semiconductor

Dr. Sang Yeol Lee
Professor, Dept. of Semiconductor Engineering
Director, Research Institute of Advanced Semiconductor
Convergence Technology
Cheongju University, Korea



Brief Introduction of Dr. Sang Yeol Lee:

Dr. Sang Yeol Lee has been a full professor at the department of semiconductor engineering in Cheongju University from 2011. He finished his Ph.D at the department of electrical and computer engineering in State University of New York at Buffalo, NY, USA in the year of 2002. He worked as a senior researcher at Electronics and Telecommunications Research Institute (ETRI) in Korea until 1995 and full professor in Yonsei University until 2007. He also worked as a principle research scientist in KIST(Korea Institute of Science and Technology) until 2011. He worked Los Alamos National Lab in USA as a visiting scholar from 2002 to 2003 in Electronic Device Team. His major research interests are oxide electronics including oxide thin film transistors for next generation display applications, oxide nano-bio sensors, touch screen panels with TCOs, nanoelectronics and memory devices. He has been served as organizer, chair, key-note speaker and many invited speakers in international conferences including MRS-spring 2014 at San Francisco(USA) and published more than 200 papers in notable journals.

Social Sciences Keynote Speech

Adelfa

11:00-12:00 Tuesday January 19, 2016

Topic: 21st Century Comfort Women: Penurious Filipinas and Inevitable Entrapment in the Sex Trade

Dr. P.C. (Pete) Kutschera, PhD,
Director and Visiting Professor, Philippine Amerasian
Research Center (PARC)
College of Social Sciences and Philosophy
Don Honorio Ventura Technological State University,
Bacolor, Pampanga, 2001, Luzon, Philippines



Abstract:

Sex tourist and military prostitution, earmarks of the ubiquitous Philippine sex trade, have propelled profoundly impoverished Filipinas into the underbelly and grim netherworld of domestic and globalized commercialized sex. As a logical sequel to "No Way Out: The Tragic Transnational Sexual Exploitation of the Philippines," 2nd APCBSS-2014 Conference, Taipei, Taiwan, ROC, our follow-on research and conference paper traces an uncanny resemblance of reluctant and tormented Filipina sex workers to iconic World War II Comfort Women: Korean, Chinese, Taiwanese and Philippine females forcibly impressed into duties as prostitutes by Japanese Imperial Empire to service the basest needs of military field personnel. Driven by the nearly century long U.S. colonial and military bases occupation, this dominance contributed to a devastating legacy of military prostitution - a nefarious system presaging a constellation of carnality ranging from high end sex tourism and de facto hotel resort brothels to barrio level karaoke bordellos sprawled across the island archipelago. Our socioeconomic analysis shows the Philippines, indeed, never truly recovered from the ravages of World War II, and unlike its wealthier East Asian neighbors, did not reach the promise and prosperity projected by independence and new world order recovery. Left in its wake to this day are unlucky generations of Filipina women; what our research finds are leveraged "penurious prostitutes" victimized, desperate, the "poorest of the poor." They are, in part, entrapped casualties, the legacy of international war policies and geopolitical misadventure not entirely unlike that which spawned the dreaded Comfort Woman scourge.

Brief Introduction of Dr. P.C. (Pete) Kutschera:

Dr. "Pete" Kutschera has presented a dozen international research conference papers and co-authored numerous scholarly journal articles on the legacy of U.S. military and geopolitical involvement in the Philippine islands dating to 1898. His doctoral dissertation on poverty, stigmatization and mental health issues facing Filipino Amerasians focused on these forsaken biracial offspring abandoned or orphaned by U.S. military personnel. A segment of the Filipina national mothers of these forgotten, mixed heritage children had been leveraged into lives as sex workers by the military prostitution system which he has lectured on since 2012 at major conferences and symposia in venues ranging from Australia, Canada, Cambodia, Dubai, UAE and the Philippines to Singapore, South Korea, Taiwan, Thailand and the USA. A retired U.S. Army reserve forces lieutenant colonel and daily newspaper editor, Dr. Kutschera is an American citizen, permanent resident of the Philippines, and married 25 years to a Cebuana native who are parents of a Filipino American son.

Education (1) / Psychology

Tuesday, January 19, 2016 09:00-10:30 Adelfa

Session Chair: Prof. Gina Miciano Alvarado

ICSPE-158

Exploring the Impact of Neurodevelopmental Disorders in Families: A Literature Review

Von Ralph Dane Marquez Herbuela | Ehime University

Tomonori Karita | Ehime University

Nagako Kashiki | Ehime University

Akira Nakayama | Ehime University

ICSPE-160

Factors Affecting Tertiary Students' Entrepreneurial Mindset in Internship Programs

Chun-Mei Chou | National Yunlin University of Science and Technology

Chien-Hua Shen | Transworld Institute of Technology

His-Chi Hsiao | Cheng Shin University

Su-Chang Chen | National Penghu University of Science and Technology

Hui-Tzu Chang | National Chiao Tung University

Ting-Yi Lee | National Yunlin University of Science and Technology

ICSPE-187

Action Research and Reflective Approach to Teaching: Bases for Improvement of Instruction, School Year 2013-2014

Gina Miciano Alvarado, Ph.D | Arellano University

ICSPE-155

Understanding and Infusion on Higher Order Thinking Skills in Teaching and Learning

Tajularipin Sulaiman | Universiti Putra Malaysia

Roselan Baki | Universiti Putra Malaysia

Fazilah Razali | *Universiti Putra Malaysia*

ICSPE-213

Effect of Stress on Mental Health among Government & Private Primary Teachers Sanjivani Jagdish Patil | Shivaji University, M.V.P. College

ICSPE-168

Instructional Competence on Educational Technology: Its Implications for Readiness in Teaching Innovation in Higher Education

Alhisan Utoh-asim Jemsy | *Mindanao State University- Tawi-Tawi College of Technology and Oceanography*

Civil Engineering / Environmental Engineering / Electrical &

Electronic Engineering (1)

Tuesday, January 19, 2016 09:00-10:30 Rosal

Session Chair: Prof. Anthony David Johnson

ICEIT-250

A Total Design Control Management Strategy for Sustainably Designed Products

Anthony David Johnson | Seoul National University of Science and Technology Andrew Gibson | Segelocum Ltd

ICEIT-460

Environmentally Cleaned Al-doped ZnO Thin Films Before and After Being Dipped in Water

Hyung-Jin Choi | Chungnam National University

Byeong-Ju Park | Chungnam National University

Ji-Ho Eom | *Chungnam National University*

Min-Ju Choi | Chungnam National University

Hyesung An | Chungnam National University

Hyun-You Kim | Chungnam National University

Soon-Gil Yoon | Chungnam National University

ICEIT-494

A Study on the Behaviors of Shallow Arrayed Anchor Groups in Dense Sand

Wen-Chi Hu | Chaoyang University of Technology

Sung-Chi Hsu | Chaoyang University of Technology

Yi-Chun Yeh | Chaoyang University of Technology

Shih-Tsung Hsu | Chaoyang University of Technology

ICEIT-258

Motor-Toggle-Mechanism Coupling System Control Using Cerebellar Model Articulation Controllers

Chih-Min Lin | Yuan Ze University

Management (1) / Education (2)

Tuesday, January 19, 2016 13:30-15:00 Adelfa

Session Chair: Prof. Donald L. Amoroso

APCSSM-29133

How to Succeed in Doing Business in Russia?

Ron Berger | College of Law and Business
Ram Herstein | College of Law and Business

APCSSM-29150

An Exploration for Establishment of Restaurants Services Blueprint Using Lean Principles

Ming-Te Liu | *China University of Technology*

APCSSM-29171

Exploring the Adoption of Mobile Technologies in Thailand: Development of a Research Model

Donald L. Amoroso | *Auburn University Montgomery* Pajaree Ackaradejruangsri | *Asian Institute of Management*

ICSPE-212

Language Learning Anxieties and Communication Skills among Freshmen of Western Mindanao State University

Elvinia Reyes Alivio | *Mindanao State University-Tawi-Tawi College of Technology and Oceanography, Bongao, Tawi-Tawi,*

ICSPE-200

Graphical Illustration, Work Experience and Logical Thinking for Technical English

San-San Sing | National Taipei University of Business Chi Wang | Tungnan University

Bing Yuh Lu | Tungnan University

ICSPE-203

Active Aging Learning Educational System in Taiwan: The Perspective on the Elders Using Modern Mobile

Ming-Chia Lin | National Taipei University of Technology
Tung-Lai Hu | National Taipei University of Technology
Jian-Zhong Lee | Tungnan University
Bing Yuh Lu | Tungnan University

Law/Society

Tuesday, January 19, 2016 15:30-17:00 Adelfa

Session Chair: Prof. Ronald Charles Griffin

APCSSM-29195

Precis about Welfare

Ronald Charles Griffin | Florida Agricultural & Mechanical University

ICSPE-148

The Relationship between, Depressive Symptoms, Deliberate Self-Harm, and the Attitudes towards Seeking Professional Psychological Help among Behavior Rehabilitation School Students

Hor Kean Hao | *Universiti Putra Malaysia* Wan Marzuki Wan Jaafar | *Universiti Putra Malaysia*

APCSSM-29183

A Challenge to the Path Dependence Theory: A Path Emergence Theory Perspective Ki-Joon Hong \mid Kyung Hee Unversity

ICSPE-139

Social Upliftment of Needy and Meritorious Students in Higher Education in Jalgaon, India

Subhash Sadashiv Rane | *Dr. Annasaheb G. D. Bendale Mahila Mahavidyalaya, Jalgaon* Sudhakar Vishwanath Dhake | *Dr. Annasaheb G. D. Bendale Mahila Mahavidyalaya, Jalgaon*

Mechanical Engineering/Aeronautics & Aerospace

Tuesday, January 19, 2016 15:30-17:00 Rosal

Session Chair: Prof. Byoungsoo Kim

ICEIT-270

Development of Grid Generation Program for OpenFOAM Flow Analysis

Wanghyun Kim | Chungnam National University

Dowoo Nam | Chungnam National University

Byoungsoo Kim | Chungnam National University

ICEIT-283

Study on Temperature Control Performance for a Room with Air Conditioner and Lamplight

K. L. Ku | National Chiao Tung University

T. S. Liu | National Chiao Tung University

ICEIT-498

Heat Conductions for Vibration of FGMs Plate Using Mori-Tanaka and Self-Consistent Methods

Seok Hyeon Kang | Seoul National University

Ji-Hwan Kim | Seoul National University

ICEIT-526

Characterization of Aluminum-Doped Zinc Oxide Thin Films by Atomic Layer Deposition

Fa-Ta Tsai | National Taiwan University of Science and Technology

Ching-Kong Chao | National Taiwan University of Science and Technology

Rwei-Ching Chang | St. John's University

Material Science and Engineering

Wednesday, January 20, 2016 09:00-10:30 Rosal

Session Chair: Prof. Tae-Jun Ha

ICEIT-488

UV Light Activated Indium Oxide Nanoparticles for NO Detection at Room Temperature

Nguyen Duc Chinh | Chungnam National University

Nguyen Duc Quang | Chungnam National University

Hyundong Lee | Chungnam National University

Truong Thi Hien | Chungnam National University

Nguyen Minh Hieu | Chungnam National University

Dahye Kim | Chungnam National University

Hyojin Kim | Chungnam National University

Dojin Kim | Chungnam National University

ICEIT-489

CdS/ZnO Core-Shell Nanorod Structure As Photoelectrochemical Electrode for High Performance Hydrogen Production

Truong Thi Hien | Chungnam National University

Do Van Lam | Korea Institute of Machinery & Materials

Nguyen Minh Vuong | Chungnam National University/Quy Nhon University

Nguyen Duc Quang | Chungnam National University

Kim Dahye | Chungnam National University

Seung-Mo Lee | Korea Institute of Machinery & Materials

Dojin Kim | Chungnam National University

ICEIT-490

Branched TiO2/CdS Nanorods Structure for High Efficiency Photoelectrochemical Cell Electrode for Hydrogen Production

Duc Quang Nguyen | Chungnam National University

Truong Thi Hien | Chungnam National University

Daehye Kim | Chungnam National University

Soon-Ku Hong | *Chungnam National University*

Chunjoong Kim | Chungnam National University

Dojin Kim | *Chungnam National University*

ICEIT-584

High Performance Solution-Processed Carbon Nanotube Thin-Film Transistors by Employing an Interacting Film

Jun-Young Jeon | Kwangwoon University
Tae-Jun Ha | Kwangwoon University

ICEIT-269

Study of the Photocatalysis Behavior and Sterilization Property of Titanium Dioxides by Using Electrochemical Method

Ching An Huang | Chang Gung University
Fu Jung Hsu | Chang Gung University

Electrical & Electronic Engineering (2)/ Power & Energy

Engineering

Wednesday, January 20, 2016 10:50-12:00 Rosal

Session Chair: Prof. Marianne Yumul

ICEIT-256

Proposal of a Hamming Distance Search CAM with Neuron CMOS A/D Converters

Masaaki Fukuhara | *Tokai University*Makoto Urakami | *Tokai University*Sho Hayakawa | *Tokai University*Akihiro Ueda | *Tokai University*

Yujiro Harada | Tokai University

Kuniaki Fujimoto | Tokai University

Masahiro Yoshida | Tokai University

ICEIT-497

Effects of Emulsifying Methods and Combustion Improving Additive on Emulsification Characteristics of Two-Phase Emulsions

Cherng-Yuan Lin | National Taiwan Ocean University

Chang-Ting Tsai | National Taiwan Ocean University

Li-Wei Chen | National Formosa University

ICEIT-264

The Use of Fused Silica Based Filter in Enhancing Micro-Thermophotovoltaics System Efficiency

Geri Tangdiongga | Temasek Polytechnic

Supun Ariyasinghe | Temasek Polytechnic

Swee Tiong Tan | Temasek Polytechnic

Geri Tangdiongga | Southwest Jiaotong University

Siaw Kiang Chou \mid National University of Singapore

Wenming Yang | National University of Singapore

Dongyue Jiang | National University of Singapore

ICEIT-629

An Isolated Bidirectional Converter for Battery Charging/Discharging System

Taufik Taufik | California Polytechnic State University

Marianne Yumul | Technological Institute of the Philippines-Manila

Ferdinand Milan | Technological Institute of the Philippines - QC

ICEIT-630

Design for the Adaptation of Prepayment Energy Metering System for Multi-Tenant Office Buildings and Rented Accommodations

Taufik Taufik | California Polytechnic State University

Marianne Yumul | Technological Institute of the Philippines-Manila

Ferdinand Milan | Technological Institute of the Philippines - QC

Biological Engineering/Natural Science

Wednesday, January 20, 2016 13:30-15:00 Rosal

Session Chair: *Prof. Artur Luczak*

ICBENS-155

The Butterfly Effect: Reforestation Strategies Based from Butterfly Distribution Data in the Philippines

Jade Aster Tumala Badon | McGuire Center for Lepidoptera and Biodiversity,
University of Florida

ICBENS-158

Neuronal Activity Packets as Basic Units of Communication in the Cortex

Artur Luczak | *University of Lethbridge*

ICBENS-153

Genetic Diversity Analysis in South African Taro (Colocasia Esculenta) Accessions Using Molecular Tools

Nguluta Mwamba | *Vaal University of Technology* Patrick Adebola | *Agricultural Research Council, Roodeplaat* Michael Pillay | *Vaal University of Technology*

ICBENS-193

Caloric Restriction in Lean and Obese Strains of Laboratory Rat

Cenk Aydin | *University of Uludag*Kimberly Jarema | *U.S. Environmental Protection Agency*Pamela Phillips | *U.S. Environmental Protection Agency*Christhopher Gordon | *U.S. Environmental Protection Agency*

ICBENS-229

Assessment of Ecosystems Condition in Romania Using MAES Methodology.

Case Study: Divici-Pojejena Wetland

- Monica Matei | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Raischi Marius | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Lucian Laslo | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Ciobotaru Nicu | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Cristina Musat | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Madalina Boboc | National Institute for Research and Development in Environmental

 Protection Bucharest, Romania
- DEAK Gyorgy | National Institute for Research and Development in Environmental Protection Bucharest, Romania

ICBENS-304

Mapping and Assessment of the Ecosystem Services in Divici-Pojejena Wetland and Identification of their Contribution to the Economic Sectors

- Madalina Boboc | National Institute for Research and Development in Environmental
 Protection Bucharest, Romania
- Lucian Laslo | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Monica Matei | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Cristina Musat | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Raischi Marius | National Institute for Research and Development in Environmental Protection Bucharest, Romania
- Deak Gyorgy | National Institute for Research and Development in Environmental Protection

 Bucharest, Romania

Finance & Economics / Management (2)

Wednesday, January 20, 2016 15:30-17:00 Rosal

Session Chair: Prof. Christian C.P. Wolff

APCSSM-29167

Modeling Default Correlation in a US Retail Portfolio

Dennis Bams | *University of Luxembourg*Magdalena Pisa | *University of Luxembourg*Christian C.P. Wolff | *University of Luxembourg*

APCSSM-29137

Financial Investor Behavior of Distinct Types of Institutional Investors

Yang-Kyu Shin | Daegu Haany University

APCSSM-29160

An Examination of Favourable Sex Ratio in Tapi

Smruti Bakul Bulsari | Veer Narmad South Gujarat University Kiran Pandya | Veer Narmad South Gujarat University

APCSSM-29200

Innovation Strategies to Be a High-Growth Firm through Large Jump

Chulwoo Baek | *Duksung Women's University*Taewon Kang | *Seoul National University*

APCSSM-535

Leadership-Styles Models and Skills

Adel Ibrahim | Nexus Group, Saudi Arabia

APCSSM-29219

Who Drives Market Access for Biotech Products in the Food and Chemicals Industries of Korea? A Political Economy Approach to Sustainable Development

Bongsuk Sung | Woosong University
Ki-Kwan Yoon | Chungnam National University
Md. Iqbal Bhuyan | Chungnam National University
So-Sun Lim | Chungnam National University

APCSSM-29238

Factors Inhibiting University-Industry Technology Transfer

Mariem Khadhraoui | ISG Sousse, Tunisia

Michel Plaisent | *University of Quebec in Montreal*

Lassaad Lakhal | ISG Sousse, Tunisia

Prosper Bernard \mid *University of Quebec in Montreal*

Civil Engineering / Psychology / Education / Management /

Communication

Tuesday, January 19, 2016 09:30-10:30 Pre Function Area

ICEIT-267

A Study on Permanent Basement Wall Method Using PHC Pile

Soohyun Ryu | Sahmyook University

ICEIT-268

A Comparative Study of Laws and Regulations on Barrier-Free Residential Architecture in Korea and Overseas

Kyooil Lee | Sahmyook University

Yoonho Kim | Sahmyook University

Sungjoon Ahn | Korea Disabled Peoples Development Institute

ICEIT-277

Eco-Friendly Mortar Properties Depending on the Type of Adsorbent and Mixing Ratio

Sangsoo Lee | *Hanbat National University*

Yong Lee | Hanbat National University

Hyeonwoong Lim | Hanbat National University

ICEIT-540

Impact of Sea Level Rise on Salinization of Groundwater and Soil in Reclaimed Farm Land in Korea

Namsik Park | Dong-A University

ICEIT-280

Monitoring of Acoustic Emission on Corroded RC Beam due to Chloride Induced Corrosion

Yuma Kawasaki | Ritsumeikan University

Takuo Gonno | Ritsumeikan University

Kazuyuki Izuno | Ritsumeikan University

Seismic Fragility Analysis of RC Staggered Wall Buildings

Chanwoo Jung | Sungkyunkwan University Hyunkoo Kang | Sungkyunkwan University Jinkoo Kim | Sungkyunkwan University

ICEIT-484

An Analysis of Stress Factors according to Living Noise at Multi-Unit Dwelling

Yang gi nam | *Kyonggi University* Shin yoon seok | *Kyonggi University*

ICEIT-492

Effect of Stacking Sequence of GFRP Infill with the Temperature Effect of Core Material under Compression

WooYoung Jung | Gangneung-Wonju National University
Viriyavudh Sim | Gangneung-Wonju National University
BuSeog Ju | Gangneung-Wonju National University

ICEIT-546

Non-Conservative Problem of Inelastic Steel Columns

Nam-Il Kim | Sejong University
Tan-Tien Nguyen | Sejong University
Son Thai | Sejong University
Jaehong Lee | Sejong University

ICSPE-157

Verifying Mediating Effects of Coach's Leadership within the Relationship of Achievement Goal Orientation and Sports Behavior

Yong-Kyu Kim | Daegu University
Deok-Jin Kim | Namseoul University

ICSPE-190

Role of Psychological Desire as a Moderator Variable of Leisure Constraint Negotiation

Kim Min-Jun | Kyonggi University
Yoo Jung-In | Korea University
Kim Deok-Jin | Namseoul University
Kim Sung-Kue | Korea University
Rhim Yong-Taek | Namseoul University

ICSPE-181

Systematic Problem-Based Learning Model Using the Internet in Accounting Course for Engineers

Moon-Soo Kim | Hankuk University of Foreign Studies

ICSPE-189

Effect of Perceived Sport Stars' Image on the Motivation of Physical Activity Participation and the Satisfaction of Physical Education Class in Korean University

Jung Joo-Hyug | Korea University
Yoo Jung-In | Korea University
Kim Min-Jun | Kyonggi University
Rhim Yong-Taek | Namseoul University
Yun Dae-Hyun | Chungnam National University

APCSSM-29188

Self-Guided Tourist Transportation Scheduling Problem

Chun-Ying Chen | Kainan University
Tzu-Ting Chiu | Kainan University
Xin-Yi Wang | National Kaohsiung University of Hospitality

APCSSM-29148

Assistive Design of Cursors for Low Vision Users

Nien Tsan Wang | National Taiwan University of Arts
Lu Yen Chen | National Taiwan University of Arts
Yi Chen Hsu | National Taipei University of Education

Biological Engineering/Computing Engineering and

Technology

Tuesday, January 19, 2016 10:30-11:30 Pre Function Area

ICBENS-152

Effect of Heat Shock on the Viability of Streptococcus Thermophilus Exposed to Subsequent Stress Conditions

Shu-Hua Chiang | Fo Guang University
Lin-Lin Sung | National Taiwan University
Cheng-Chun Chou | National Taiwan University

ICBENS-181

Preparation and Characterization of Biocompatible Chitosan Hydrogel Photocured with Visible Light for Tissue Engineering Applications

Dae Hyeok Yang | *The Catholic University of Korea* Dong In Seo | *The Catholic University of Korea*

ICBENS-182

Preparation and Characterization of Biocompatible Hyaluronic Acid Hydrogel Photocured with Visible Light for Tissue Engineering Applications

Sang Jun Park | Korea Institute of Radiological & Medical Sciences
Chun Ho Kim | Korea Institute of Radiological & Medical Sciences
Thomas Taehyoung Kim | The Catholic University of Korea
Dae Hyeok Yang | The Catholic University of Korea

ICBENS-183

Preparation of Thermo-Responsive MPEG-PCL Hydrogels Containing RGD and Their Biocompatibilities

Heung Jae Chun | *The Catholic University of Korea*Jae Kwang Kim | *The Catholic University of Korea*Young Hwan Park | *Korea Institute of Industrial Technology*

Development of Surface Treatment Technique by O2 Plasma-Treated Polydimethylsiloxane for Bone Formation

Marin Ikkatai | *Doshisha University* Yusuke Morita | *Doshisha University* Eiji Nakamachi | *Doshisha University*

ICBENS-195

Development of Porous PLLA Microfiber Scaffold for Cartilage Regeneration by Electrospinning

Ryosuke Narisada | *Doshisha University*Yusuke Morita | *Doshisha University*Tsutao Katayama | *Doshisha University*Kazuto Tanaka | *Doshisha University*Eiji Nakamachi | *Doshisha University*

ICBENS-162

Ecological Health Assessment of Aquatic Biota in Limestone Mine Streams

Sang-Jae Lee | Chungnam National University
Ji-Woong Choi | Chungnam National University
Seon-Young Kim | Chungnam National University
Yeonah Ku | Chungnam National University
Kwang-Guk An | Chungnam National University

ICBENS-198

Antimicrobial Effect of Bacillus Amyloliquefaciens JFP-2 Isolated from Jeju Island`s Traditional Fermented Food, against Fish Pathogens and its Bacteriocin Characterization

Dong-Hwi Kim | Jeju National University
So-Hyun Park | Jeju National University
Subramanian Dharaneedharan | Jeju National University
Kyung-Mi Moon | Jeju National University
Minseck Kang | Jeju National University
Ha-Ri Choi | Jeju National University
Moon-Soo Heo | Jeju National University

An Improvement in Solving the Robust Combinatorial Optimization Problems

Taehan Lee | Chonbuk National University

ICEIT-288

Significant Segmentation of the Foot Disorder Using Two-Step Clustering

Jung-Kyu Choi | *Chonbuk National University*Jae-Young Cho | *Chonbuk National University*Jung-Ja Kim | *Chonbuk National University*Yonggwan Won | *Chonnam National University*

ICEIT-496

A Numerical Study on the Anchorage Behavior of Tieback Anchors in Silty Sand

Wen-Chi Hu | Chaoyang University of Technology
Kai-Jen Chan | Chaoyang University of Technology
Shih-Tsung Hsu | Chaoyang University of Technology

Chemical Engineering / Natural Science

Tuesday, January 19, 2016 14:00-15:00 Pre Function Area

ICEIT-486

A Study on Synthesis of Diketopyrroles Pigment by Beadmill with New Ripening Method

Seok Won Yang | first-color

Jae Hwan Kim | first-color

Song Hyuk Kim | First-Color

Seong Soo Park | Pukyong National University

ICBENS-148

Synthesis of Octyl Glucoside Surfactant by Direct Glucosidation on Microporous Zeolite Catalysts

Kyong-Hwan Chung | Sunchon National University
Sang-Min Jeong | Sunchon National University
Sung-Jin Lee | Sunchon National University
Heon Lee | Sunchon National University
Sang-Chul Jung | Sunchon National University

ICBENS-165

Fish Compositions Analysis in Stream Ecosystem, Based on Multi-Metric Model and Chemical Water Quality

Seon-Young Kim | Chungnam National University
Ji-Woong Choi | Chungnam National University
Yeonah Ku | Chungnam National University
Sang-Jae Lee | Chungnam National University
Kwang-Guk An | Chungnam National University

Ecological Assessment of Dam Construction Impacts on Fish Movements Using Various Fish-Monitoring Methodologies

Ji-Woong Choi | Chungnam National University

Sang-Jae Lee | Chungnam National University

Yeonah Ku | Chungnam National University

Seon-Young Kim | Chungnam National University

Kwang-Guk An | Chungnam National University

ICBENS-163

Diagnosis of Reservoir Trophic Responses Using Two-Dimensional Approach of Trophic State Index Deviation and Non-Algal Light Attenuation Coefficient

Yeonah Ku | Chungnam National University

Seon-young Kim | Chungnam National University

Sang-Jae Lee | Chungnam National University

Ji-Woong Choi | Chungnam National University

Kwang-Guk An | Chungnam National University

ICBENS-157

Alternative Miniaturized Extraction Method of Heavy Metal Ions from Contaminated Soils

Seungkyung Park | Korea University of Technology and Education

ICBENS-156

Microbial Synthesis of Bioactive Compouns by the Marine Isolate of the Microorganisms

Keumja Yun | *Pukyong National University*

Byeng Wha Son | Pukyong National University

ICBENS-190

Effect of the Gas Diffusion Layer on the ORR and OER Performance of La_{0.8}Sr_{0.2}CoO₃ Catalysts in an Alkaline Solution

Kareen J. Lopez | Kunsan National University

Joongpyo Shim | Kunsan National University

Ho-Jung Sun | Kunsan National University

Gyungse Park | *Kunsan National University*

Do Types of Warm-Up Exercise Affect to Physical Performance?

Jaehyun Yoo | Sahmyook University

ICBENS-222

Studies on Dissipation Pattern of Cyenopyrafen in Pear Using Liquid Chromatography-Ultraviolet Detector (LC-UVD)

Md. Humayun Kabir | *Chonnam National University*

Jeong-Heui Choi | Chonnam National University

Young-Jun Lee | Chonnam National University

Md. Musfiqur Rahman | Chonnam National University

Sung-Woo kim | *Chonnam National University*

Jae-Han Shim | Chonnam National University

ICBENS-223

A Fundamental Study for Tolerance of Veterinary Antibiotics in Agricultural Soils and Materials

Md. Humayun Kabir | Chonnam National University

Jeong-Heui Choi | Chonnam National University

Young-Jun Lee | Chonnam National University

Md. Musfiqur Rahman | Chonnam National University

Hyung suk Chung | *Chonnam National University*

Jae-Han Shim | Chonnam National University

ICBENS-224

Method Development for Bisphenol A and Analogs in River Water

Hyung suk Chung | Chonnam National University

Jeong-Heui Choi | Chonnam National University

Young-Jun Lee | Chonnam National University

Jae-Han Shim | Chonnam National University

Sung-Woo kim | National Institute of Environmental Research

Hyung-Jin Lee | National Institute of Environmental Research

Hee-Jung Jung | National Institute of Environmental Research

Morusin Induces TRAIL Sensitization by Regulating EGFR and DR5 in Human Glioblastoma Cells

Seok-Geun Lee | College of Korean Medicine

Dain Park | College of Korean Medicine

Eun-Ok Kim | College of Korean Medicine

Jun-Hee Lee | College of Korean Medicine

Miyong Yun | College of Korean Medicine

ICBENS-209

Approach of In situ Cubitainers to Detect the Growth Effects of Algal Cells in Lake Ecosystem

Gersan An | Kwangwon National University

Ji-Woong Choi | Chungnam National University

ICBENS-217

Self-Organizing Maps (SOMs) of Chemical Water Quality and Fish Communities for Ecological Data Analysis

Kwang-Guk An | Chungnam National University

Ji Yoon Kim | Chungnam National University

Yeonah Ku | Chungnam National University

Seon-Young Kim | Chungnam National University

Environmental Engineering / Material Science and

Engineering / Mechanical Engineering / Electrical & Electronic

Engineering

Tuesday, January 19, 2016 15:30-16:30 Pre Function Area

ICEIT-278

Basic Study on Efflorescence Affected in Environmental Conditions of Porous Concrete Payement

Hiroyuki Matsushita | Ritsumeikan University

Masaki Terashima | Ritsumeikan University

Yuma Kawasaki | Ritsumeikan University

Daiki Atarashi | Shimane University

Takayasu Yoshida | Hanshin Expressway Engineering

Takahisa Okamoto | *Ritsumeikan University*

ICEIT-275

Localized-Surface-Plasmon-Enhanced Multifunction Silicon Nanomembrane Schottky Diodes Based on Au Nanoparticles

Chan-hwan Hong | Korea University

Tanyoung Kim | Korea University

Byeong-Kwon Ju | *Korea University*

Hyeon Jun Ha | Korea University

ICEIT-592

Tailor-Made Pore Controlled Poly (Arylene Ether Ketone) Membranes as a Lithium-Ion Battery Separator

Anh Le Mong | Sungkyunkwan University

Dukjoon Kim | Sungkyunkwan University

Annealing Ambient Effect on the Functional Films Synthesized on Ceramic Substrate

Won Seok Choi | Hanbat National University

Bowen Shan | Hanbat National University

Hong-Jik Shin | Hanbat National University

Ji-Young Han | Hanbat National University

Seokhun Kwon | Hanbat National University

Hyunil Kang | Hanbat National University

Yeun-Ho Joung | Hanbat National University

Jong Kug Park | *Hanbat National University*

ICEIT-352

Experimental Identification of Thrust Dynamics for a Drone

Myunggon Yoon | Gangneung-Wonju National University

ICEIT-276

Study on Tensile Characteristics of Friction Stir Welding Zone by Using Digital Image Correlation

Kyu Hyeung Kwon | Chonbuk national University

Young June Kang | Chonbuk national University

Kyung Min Hong | *Chonbuk national University*

In Young Choi | *Chonbuk national University*

Sung Jong Kim | *Chonbuk national University*

ICEIT-282

Process Planning Issues in Impeller Roughing

Mohd Azlan Bin Suhaimi | Universiti Teknologi Malaysia

Gihwan Cho | *Chonbuk National University*

Dong-Won Kim | Chonbuk National University

ICEIT-236

Friction and Wear Characteristics of Polylactic Acid for 3D Printing under Reciprocating Condition

Hong Yi | *Inha University*

Kwang-Hee Lee | *Inha University*

Chul-Hee Lee | *Inha University*

A Miniaturized Accelerometer Using ZnO Nanowire

Hyun-Chan Kim | *Inha University* MD I. R. Shishir | *Inha University* Sangho Song | *Inha University* Jaehwan Kim | *Inha University*

ICEIT-825

Cellulose Nanofibers for Smart Eco-Friendly Materials

Lindong Zhai | *Inha University*Jeong Woong Kim | *Inha University*Yaguang Li | *Inha University*Jaehwan Kim | *Inha University*

ICEIT-291

Multi-Gas Measurement System Based on Non-Dispersive Infrared

Paik Seung Hyun | Kyungpook national University Sang Hun Jung | Kyungpook national University Park Hong Bae | Kyungpook national University

ICEIT-315

Terahertz Characterization of the Photochromic Spiropyran by Using THz-TDS

Han-Cheol Ryu | Sahmyook University

ICEIT-500

Indoor Comfort Supervisory Control Simulator

Shin-Yeu Lin | Chang Gung University Chih-Yu Lee | Chang Gung University

ICEIT-487

ESD-Reliability Influences of an HV nLDMOS with Different Embedded SCR Structures in the Drain Side

Shen-Li Chen | *National United University* Min-Hua Lee | *National United University*