

# **2017 ICAST PROCESS**

11/23-11/25



## 11/23 - Day one

8:30-9:00	Register
	Opening Address
09:00-09:10	Bor-Tsuen Lin (Dean of College of Engineering, National Kaohsiung First University of
	Science and Technology)
	Opening Address
09:10-09:20	Chien-Cheng Tseng (Dean of College of Electrical Engineering and Computer Science,
	National Kaohsiung First University of Science and Technology)
	Welcome Address
09:20-09:30	Tsuyoshi Usagawa (Dean of Graduate School of Science and Technology, Kumamoto
	University)
	Keynote Lecture ( I )
09:30-10:00	Tsuyoshi Usagawa (Graduate School of Science and Technology, Kumamoto University)
	"Campus-wide e-Learning activities in Kumamoto University in the last decade"
	Keynote Lecture ( II )
10:00-10:30	Chin-Der Wann (Associate Dean, College of Electrical Engineering and Computer
	Science) "Critical Thinking in Learning"
10:30-10:40	Introduction of First Tech
10:45-11:30	Poster session
11:30-13:00	Lunch
	Oral session I (Room 608)
	J01 \ J02 \ J03 \ J04 \ J05 \ J06 \ J07 \ J08
	Oral session I (Room 609)
13:00-15:30	K01 · K02 · K03 · K04 · K05 · K06 · K07 · K08
13.00-13.30	Oral session I (Room 610)
	101 \cdot 102 \cdot 103 \cdot 104 \cdot 105 \cdot \frac{106}{107} \cdot 108
	Oral session I (Room 611)
	M01 · M02 · M03 · M04 · M05 · M06 · M07
15:30-16:00	Teatime and break
	Oral session II (Room 608)
	J09 × C01 × C02 × C03 × C04
	Oral session II (Room 609)
16:00-17:45	109  110   111  112   113   114   115   116
10.00-17.43	Oral session II (Room 610)
	G01 \ G02 \ G03 \ G04 \ G05
	Oral session II (Room 611)
	H01、H02、H03、H04、H05

### 11/24 - Day two

	Oral session III (Room 608) B01 \cdot B02 \cdot B03	
09:00-10:00	Oral session III (Room 609) K09 \ K10 \ L01	
09.00-10.00	Oral session Ⅲ(Room 610) A01、F01、F02	
	Oral session Ⅲ(Room 611) E01、E02、E03	
10:00-11:00	Poster session (All poster)	
11:00-11:30	Ending and Awards	
11:30-13:00	Lunch	

### 11/25 – Day three

8:30-8:45	Gather at Cingpu MRT station
8:45-9:45	To Luermen Tienhogong
9:45-11:00	Visit Luermen Tienhogong
11:00-13:40	Have lunch
13:40-14:00	To Southern Branch of the National Palace Museum
14:00-17:00	Visit Southern Branch of the National Palace Museum
17:00-18:30	Back to Cingpu MRT station

#### Payment instructions:

1. Detailed cost of each person:

Rent of the shuttle bus	\$ 235 NTD
Meal	\$ 222 NTD
Ticket of Museum	\$ 260 NTD
Total	\$ 717 NTD

2. ICAST will provide subsidy on this field trip. So each person who will join the field trip will be required to pay \$500 NTD to the travel counter while you check in.

#### **Oral sessions**

- (A) Mathematics
- (B) Physics
- (C) Chemistry
- (D) Earth and Environments
- (E) Biological science
- (F) Applied Chemistry and Biochemistry
- (G) Material Science and Engineering
- (H) Mechanical System Engineering
- (I) Computer Science and Electrical Engineering
- (J) Civil and Environmental Engineering
- (K) Architecture
- (L) Multidisciplinary
- (M) General session

### Oral session I (Room 608):

No.	Name	Title
J01	YIN-SEN	Loan of building external walls renovation
J02	Chen, Yen-Ting	A Research of Factors that Influence the Different Construction Methods and Characteristic Combinations on Adhesion Strength of
		Ceramic Tile
J03	Hsueh Chien-Wang	Innovative sludge reduction technology-factors study
J04	Xin Yi -Xiao	Yest inoculation and selection from distiller's yeast
J05	Dun Sheng-Yang	Physical and chemical properties of gasoline and asphalt mixture- preliminary study
J06	Lee Chih-Wei	COD removal of dyeing wastewater by rice husk carbon (RHC)
J07	CHEN,HONG,YU	Study of Alkali-activated Slag Binders
J08	haoyu-Chu	Using a microbiome for the dechlorination of 2,4-Dichlorophenol

### Oral session I (Room 609):

No.	Name	Title
K01	Zhu Beilin	Evaluation on Ecological Environment Evolution of Hangzhou
KUI		Based on Remote Sensing and Index Evaluation Method
		Evaluating the Influence on urban Heat Island Phenomena in
K02	Liu Yiwei	Summer from Japanese Style Traditional Residential Houses in
		Taiwan
K03	Chian Hui Chaan	Study on the Living Environment of Elderly People by Moisture
KUS	Chien-Hui Chean	Problem-A Case Study of Mountainous Housing
K04	Hikaru Shirasaka	Development of Structural Design Support System on the World
K04		Wide Web
K05	Momoko Otaku	An experiment of the effects of acoustic conditions on children's
KUS		word intelligibility
K06	Rina Yoshidome	A measurement of acoustic power levels of sound sources in an
KUU		actual nursery rooms
K07	Daiki Hirata	Seismic Response of Steel Frame with Elastic Outer Columns
		Equipped with Friction Damper at Base
K08	Aya Tateno	Sliding and Rocking Response of Multi-storied Steel Frame
		Equipped with Friction Damper at Base under Strong Earthquake

# Oral session I (Room 610):

No.	Name	Title
<b>I01</b>	KARTIK GANIGA	Sybil Defence In Open Wireless Network
100	AISHWARYA	An Efficient Approach to Dynamic Data Load Balancing in
102	SARASWATHI H.M	MongoDB
	MUHAMMAD-	RBCWS: a Robust Budget-Conscious Workflow Scheduling
<b>I03</b>	BELLO, BILKISU	Algorithm for Handling Uncertainty in IaaS Clouds
	LARA	
	Nancy Jeane	Social Emotional Indicator of Early Childhood Education and
<b>I04</b>	Tuturoong	Development in Indonesia: A Literature Study Related to
		Constructivist Learning
105	Hendarmawan	A study of distributed intranet architecture for educational platform
		as a solution for Sustainable Development Goals (SDGs)
<b>I06</b>	Theingi Myint	Effect of High Fanout Nets for FPGA Routing Architecture
107	Koichi Furuya	Broadband Linear to Circular Polarization Reflector Using
		Modified Metasurface
108	MON MON THE	Effect of Online Quizzes for Blended Learning at Yangon
	WON WON THE	Technological University

# Oral session I (Room 611):

No.	Name	Title
M01	Andan Sigit Purwoko	Global Navigation Satellite System Sensor for Sea Level
IVIUI		Monitoring using RTKLIB
M02	MUMAND Fahim	Using non-destructive inspection to determine the self-healing of
WIUZ		concrete
M03	Syifa Nashella	Impact of Forest Fires to Total Carbon Emission that Affect
14103	Rahmah Astaman	Climate Change in Riau Province
	Jeremy Gohitua MacArthur	Bamboo Utilization for Mitigation of Landslide Potential using
<b>M04</b>		Landsat Imaginary Map and Geological Data, Study Case at
		Pacitan, East Java, Indonesia
M05	Natsuki Yamamoto	THE ROAD SUBCIDENCE CAUSED BY THE DEFECTED
MIUS		SEWER PIPE AND ITS TREND OF RESEARCH
M06	YOKO SHIMOO	Effective use of Aroma for care after disaster
M07	Norika Narimatsu and	Visualization of Beat by using a "Vibration Speaker"
	Ayaka Kosai	

# Oral session II (Room 608):

No.	Name	Title
J09	Yu Shu Qiu	Research on Cost-Effective Mixing Design of Slag Concrete
C01	Moh Mualliful Ilmi	Ultra-high capacity Adsorbent : Green Synthesis of ZIF-67 nanopores as solution for $Pb^{2+}$ heavy metal pollution problem in aquatic environments
C02	Ryohei Akiyoshi	Construction of supramolecular structures of Co(II)-metallo- macrocycle incorporating lipid amphiphilic molecule
C03	Sotaro Kusumoto	Syntheses of the dimeric cubane Ni(II) capsules and guest- tunned ferromagnetic coulpling
C04	Hikaru Kitayama	Magnetic Behavior of Spin Crossover Complex between Graphene Oxide Layers

# Oral session II (Room 609):

No.	Name	Title
109	Otgontsetseg	Predicting academic performance of students in online learning
109	Sukhbaatar	environment using classification method
		Optimal Placement and Sizing of SVC (Static VAR
I10	Habibur Rohman	Compensator) for Voltage Security Improvement Using Quantum
		Behaved Particle Swarm Optimization
<b>I11</b>	Chou Tsung Yuan	Application of the Internet of Everything in Educational
112	Bo-Yue Zeng	Integration of Robot Arm and Machine Vision: Imitate human
I12		drawing mode
T12	Ryo Fukumura	Development of Compact Pulsed Power Modulator for
I13		Biological Applications
I14	Takasumi Ikebe	Effects of Nanosecond Pulse Electric Discharge Underwater
114	rakasumi ikebe	Shock Waves on the Proliferation of Histiocytic Lymphoma Cells
T15	Hironori Uchinohae	Research on Immediately $Ca^{2+}$ Increase of Hela-S3 to
I15		Nanosecond Pulse Electric Field
		Inactivation of Bacteria in Liquid Food by Pulsed Electric Fields
<b>I16</b>	Shinji Hirakawa	(PEF) with Moderate Thermal Energy: Roles of PEF and
		Thermal Treatments on Bacterial Inactivation

# Oral session II (Room 610):

No.	Name	Title
G01	Shota Hisada	Martensitic Transformation and Crystal Structure in Equiatomic HfPd Alloy
G02	Hiroki Ito	Grain boundary engineering for improving hydrogen embrittlement of SCM435 steel
G03	Yusuke Nagaoka	Microstructural changes of titanium heated with a mixture of iron, graphite and alumina powders in the air
G04	Yu-Cyuan Ciou	Preliminary study on effects of admixture on the strength of foamed concrete
G05	An, Miau	Development of The Polycarboxylic Slump Retaining Admixture Preparation and Application.

## Oral session II (Room 611):

No.	Name	Title
1101	Mr. HITHESH G	Effect of Reflow and Isothermal Aging Temperature on Sn-Pb
H01	SHETTY	and Pb-free Solder/Substrate Interfacial Regions
H02	SANDESH G	Study of Thermal Resistance on Interface Materials
HUZ	SHETTY	
	PRAJESH	Study of Vibrational Analysis of Cantilever Beam Made by
H03	YOGESHBHAI	Natural Hybrid Fibre Composites
	ASHRA	
H04	Li-Wei Yang	Optical Design of High Contrast Reading Panel Using Edge-lit
		LED Light Guide Plate
H05	Suprayitno	Optimum Design of Micro-idge Deep Drawing Punch

### Oral session **II** (Room 608):

No.	Name	Title
B01	Yuichi Uchida	Electronic Structure of Titania Nanosheets with Vacancies Based
		on First-principles Calculations
B02	WANG,CHIH-TENG	Developing a Method to Shorten the Lighting Luminosity
		Measuring Distance
B03	WAN-HSUAN,CHEN	The Study on Development of Surgical Lights Module for LED
		Source

### Oral session **II** (Room 609):

No.	Name	Title
K09	Yuta Sasaki	Damage of ceiling systems after the Kumamoto earthquakes -A steel school buildings
K10	YU - CHUN, YAO	Simulation Analysis for Passive Buildings by Building Information Modeling
L01	Yoshihide Furukawa	Portfolio Evaluation of Thermal Power Plant Investment based on Risk-Sensitive Value Measure

### Oral session **II** (Room 610):

No.	Name	Title
A01	Felipe R.	British Put Option in a Regime-Switching Model
	Sumalpong, Jr.	
F01	Ayaka Yamamoto	Synthesis and Characterization of Graphene Oxide-based $CO_2$
		Adsorbents
F02	Keisuke Awaya	Ultrathin NiO/ $Ti_{0.91}$ $O_2$ p-n Junction and its Depletion Layer

### Oral session **III** (Room 611):

No.	Name	Title
E01	Hiu-Chi Tseng	Internet of Things Electronic handcuffs monitoring system with
E01		biometrics function of the system architecture
EOO	Jin-zhou Jiang	Improvement of phenolics degradation by high efficiency
E02		biological sludge
EO2	Chang Kai Wei	The inflence of Anammox sludge growth on the Ammonia-
E03		Nitrogen removal rate

### **Poster sessions:**

	sessions.	
No.	Name	Title
В01-р	Shinya	First-principles molecular dynamics study of Fe-S melts under outer-
Dot-h	Nakaguchi	core conditions
R02_n	Eisaku	Free Energy of Liquid Phase of Rare Gas Element by Thermodynamic
В02-р	Ushijima	Integration
С01-р	Yuta Kido	Fabrication of pn junction films using ZnO nanorods and
Co1-h	ruta Kido	semiconductor nanocrystals for gas sensing
С02-р	Yudai Hirano	Hydrogen generation from water by graphene oxide electrode
6/4/4	T : : > 4	Production of a novel antimicrobial protein peocin from Paneibacillus
E01-p	Lini Murni	ehiimemsis by recombinant E. coli
E01 m	Ikumi	Quantitative prediction of biochemical activity of chemicals targeting
F01-p	Morikawa	biogenic amine receptors
E02 -	Takafumi	A 3D quantum chemical QSAR study on the fatty acid synthase
F02-p	Inoue	inhibitor for cancer therapy
C01 n	Ryota	Orientation dependence on Bending Deformation in Pure Magnesium
G01-p	Fukumori	sheets
C02 n	Hiroaki	Effects of wire brushing and annealing on microstructure and tensile
G02-p	Fukuda	properties of AZ61Mg alloys
Н01-р	Huang	Development of embedded high pressure pipe pressure monitoring
nor-h	YuChun	device
Н02-р	Lin,Guan-	Research on the planning and design of high efficiency and energy
1102-p	Liang	saving in robot arm carry the glass substrate
	Bo-Shun	Estimation on Wind Speed and Status Assessment Using Kalman
<b>І</b> 01-р	Yang, Hao-	Filtering
101-h	Shiang	
	Chang	
102-р	Tohko	A low-profile antenna for unidirectional beam pattern in horizontal
102-р	Nishiyama	plane
	Ryunosuke	Developing a Dashboard System Designed to Support Summarizing
I03-p	Makihara	Learning Activities Collected through Web Browser - Implementation
		with IMS Caliper and OpenLRS-
	8 8	Real-Time Frequency Domain Binaural Model-Based Speech
I04-p	Kai Kiyota	Segregation using a Single BoardComputer - Application for Binaural
		Hearing Aids -
		Trade-off Measurements between Interaural Level and Time
I05-p	Shoya Jinnai	Differences using One-third-octave-band Noise by means of Bone
		Conduction Actuators
106-р	Takuya Mori	On trade-off phenomenon between interaural time and level differences
	\$ 500	for bone conduction- Method of Constant vs Method of Adjustment-
I07-p	Wenang Song	Detection of Kaminsky attack using DNS log
108-р	Ying-Lin	Target Positioning and Tracking in Small-Cell Mobile
100-h	Guo	Communications Networks