# 台日交流 — 2018 台日交流研討會 107.6.1

自2016年起,CICHE與JSCE (Japan Society of Civil Engineers) 每年輪流舉辦雙邊土木工程交流,2018年為第三屆,於6/1 (五)在台中中科園區盛大舉辦。本次論壇之主題: Hazard's Risk Management & Innovation in Civil Engineering。上午進行專題演講,下午分四個場次。本次論壇內容精心策劃,並有年輕人手腦益智活動及專為年輕人而設的短論文發表,為論壇亮點。



2018 第三屆台日交流研討會圓滿成功



















Special Activity for Young Engineers

6/1 安排參訪巨大集團全球企業總部與研發中心 6/2 安排參訪台中捷運及台中火車站





# 精彩議程如下:

# Welcome & Opening Remarks

 ${\sf CICHE\:/\:Mr.\:Jaw-Lieh\:WANG,\:CICHE\:President,\:JSCE\:/\:Dr.\:Masahiro\:OUCHI,\:JSCE\:/\:Prof.\:Hiromi\:SHIRAHATA\:}$ 

#### **Keynote Lectures**

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JSCE	Dr. Masaaki OKADA / Kindai University	Industrial Landscape and Local Community: Case Studies in Lime and Cement Industrial Cities (產業景観和地方社群:礦都(石灰石礦業都市)的事例研究)
NCREE 國震中心	Prof. Shyh-Jiann HWANG / Director General of National Center for Research on Earthquake Engineering (黃世建) Recent Research Activities of NCREE in Taiw	

### **Special Activity for Young Engineers**

Organizer: Prof. Chien-Ho KO(柯千禾)/ National PingTung University of Science & Technology 屏科大

# [D-1] Natural Hazard and Risk Management

G.T. Int. 巨廷	Dr. Sheng T. (Paul) HSU(許勝田)	Renovation of Nanhua Reservoir for Sustainability
JSCE	Dr. Hiromasa IWAI	Constitutive Modeling For Gas-Hydrate-Bearing Soils Considering Hydrate Morphology
HSR Co. 高鐵公司	Dr. Hanwei YANG (楊恆偉)	The Measures Taken by Taiwan HSR to Cope with Natural Disasters under Extreme Weather Conditions
JSCE	Dr. Tetsuya IKEDA	ICHARM's Activities on Water-Related Disaster and Flood Management in Japan for Climate Change Adaptation
Sinotech 中興顧問	Dr. Chi-Ming Chen (陳啟明)	Potential Risks of Offshore Wind Farm Development by Typhoon
JSCE	Mr. Ryuichi IBUKI	Numerical Simulation Based on SPH-DEM Analysis for Pull-Out Experiment of Masonry Retaining Wall
NKUST 高科大	Prof. Huai-Houh HSU(許懷後)	Correlations between Maximum Shear Modulus and Physical Properties of Submarine Sediments
FCU 逢甲大學	Mr. Do Van Manh(杜文孟)	A Simulation Model to Explore Freeway Artificial Intelligence Ramp Metering

# [D-2] Innovation in Earthquake Engineering

JSCE	Dr. Koji ICHII	Performance Based Seismic Design in ISO23469, and Its Possible Future Update
MAA Group 亞新	Mr. Chung-Ren CHOU(周忠仁)	Liquefaction Mitigation: Ground Improvement Techniques for Land Reclamation
JSCE	Dr. Masayuki YOSHIMI	Damage on Infrastructures due to Surface Rupture of the 2016 Kumamoto Earthquake (Mw7.0), Japan
CYUT 朝陽大學	Ms. Ying-Tzu KE(柯盈慈)	Application of Bridges Health Monitoring by Using Microwave Interferometer Technique
JSCE	Mr. Daichi ISHIKAWA	Three-Dimensional Effect on Seismic Stability of Embankment Based on SPH Simulation
NCREE 國震中心	Dr. Yu-Wen CHANG (張毓文)	Seismic Requirement for OWT in Taiwan
JSCE	Mr. Keishiro OTSUKA	Identification Accuracy of S-Wave Velocity from H/V Spectra Observed on Irregular Ground with Inclined Bedrock

# [D-3] Innovation in Track, Foundation & Transportation Engineering

arthquakes
Analysis and Risk Management –
ands

## [D-4] New Material, Technology and Construction Method for the Civil Works

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CECI 世曦	Mr. Yuan-Yao TSAI (蔡淵堯)	Challenges of the Record Deepest Excavation Design for Taichung MRT Land Development Buildings
JSCE	Dr. Hiromi SHIRAHATA	Development of Monitoring System for Bridge Collapse Detection by Energy Harvest with Solar Cell
NPUST 屏科大	Dr. Chiwan Wayne HSIEH(謝啟萬)	Plastic Underground Water Storage Tanks Engineering Behavior Under Static and Cyclic Loads
JSCE	Mr. Tadashi MORI	Coalesce and Disappearance of Entrained Air in Self-Compacting Concrete at Fresh Stage
NCHU 中興大學	Mr. Yi-Po SHAO(邵亦柏)	Reduction for Run-up Height of Long-Wave-Induced Inundation by Submerged Barriers
JSCE	Ms. Mayu SUZUKI	Development of Wood Ash Concrete
JSCE	Mr. Kohei HARA	Verification on Collapse Process of Aso Bridge during the 2016 Kumamoto Earthquake by ASI-Gauss Method







紀念品所附精美小卡

感謝中部分會林呈主任委員之學生團隊一肩扛起所有工作,更 感謝羅慶瑞副主委(左)全程參與,熱誠招待,會後贈送每位 外賓精美紀念品,令與會者及貴賓們賓至如歸,讚不絕口。