### Time Table

			14th November Monday				
13:00-	Garden Hall		Urban Environment				
14:40	Α	Session 1	Chair : Associate Prof. Hirohumi NAKAYAMA, Kyushu University				
1-1	CURRENT STATUS AND DEVELOPMENT OF MUNICIPAL SOLID WASTE TREATMENT AND COUNTERMEASURES Xiaoli CHAI, Danhui XIN (Tongji University), China						
1-2	MICROBIAL DETOXIFICATION OF HEXAVALENT CHROMIUM FROM CHROMIUM-CONTAINING SLAG De-wen HE, Huan-nian ZHOU, Lei LIU, Ding-min LIANG, Lu DU (Central South University), China						
1-3	VARIATION OF GAS AND WATER TRANSPORT CHARACTERISTICS IN SOLID WASTE LANDFILL UNDER SETTLEMENT Kandula.P.K.JAYAKODY, Takayuki SHIMAOKA, Teppei KOMIYA, Pavel EHLER (Kyushu University), Japan						
1-4	RELATION BETWEEN THE EFFECT OF VEGETATION ON CH4 EMISSTION AND COVER SOIL PROPERTY  Mayu TAKAHASHI, Hirofumi NAKAYAMA, Takayuki SHIMAOKA (Kyushu University), Xiaoli CHAI (Tongji University), Japan & China						
1-5	QUANTITATIVE EFFECTS OF 'SOCIAL EXHAUSTION' OF LANDFILL AND PRICE INCENTIVE ON ECONOMIC DECISION MAKING Hideo KOIDE (Seinan Gakuin University), Hirofumi NAKAYAMA (Kyushu University), Japan						
13:00-	Garden Hall	Session 2	Atmospheric Environment				
14:40	В	00331011 2	Chair : Prof. Yasutake TERAOKA, Kyushu University				
2-1	HUGE NUMERICAL SIMULATION OF AIRFLOW AROUND FUKUOKA CITY BY USING THE RIAM-COMPACT® CFD MODEL Takanori UCHIDA, Yuji OHYA (Kyushu-University), Japan						
2-2	WIND ENERGY POTENTIAL IN ASIAN COUNTRIES-SPECIAL ATTENTION TO MALAYSIA Nurhayati ROSLY, Yuji OHYA (Kyushu University), JAPAN						
2-3	APPLICATION OF WIND LENS TURBINE TO FLOATING PLATFORM FOR WIND POWER GENERATION Kohei TAKAHASHI, Yuji OHYA, Takashi KARASUDANI, Yusaku KYOZUKA, Makoto SUEYOSHI (Kyushu University), Japan						
2-4	BASIC INVESTIGATIONS OF A NEW TYPE WIND LENS TURBINE Hiroki NAKAMURA, Yuji OHYA, Kimihiko WATANABE (Kyushu University), Japan						
2-5	CO <sub>2</sub> DIFFUSION PREDICTION BY LATTICE BOLTZMANN METHOD FOR ENVIRONMENT ASSESSMENT OF OCEAN CCS Fei JIANG, Changhong HU (Kyushu University), Japan						

14:50-	Garden Hall Session 3	Aqueous Environment and Hydrology					
16:30	A	Chair : Prof. Yukihiro SHIMATANI, Kyushu University					
3-1	STUDY ON THE CHARACTERISTICS OF PERIPHYTON COMMUNITIES AND ITS RELATED ENVIRONMENTAL FACTORS IN INLAND RIVER OF CHONGMING ISLAND, SHANGHAI Jia LIU (Kyushu University), Jianhua LI (Tongji University), Yukihiro SHIMATANI (Kyushu University), Japan & China						
3-2	DETECTION OF FRESHWATER FISH BIODIVERSITY HOTSPOTS IN THE EAXT TIAOXI RIVER, CHINA Tatsuro SATO, Yuichi KANO (Kyushu University), Liangliang HUANG, Jianhua LI (Tongji University), Yukihiro SHIMATANI (Kyushu University), Japan & China						
3-3	THE EFFECT OF CHELATING REAGENTS ON THE RELEASE OF PHOSPHORUS FROM SEWAGE SLUDGE DURING HEATING PROCESS Mingyang ZHANG, Aimin HAO, Takahiro KUBA (Kyushu University), Japan						
3-4	PRELIMINARY STUDY ON ECOLOGICAL ENGINEERING METHODS OF WATER QUALITY IMPROVEMENT IN THE LAKE TAIHU  Yuxian LIU, Aimin HAO (Kyushu University), Yasushi ISERI (West Japan Engineering Consultants, Inc.), Shunsuke KUROKAWA (Kyushu University), Zhenjia ZHANG (ShangHai JiaoTong University), Takahiro KUBA (Kyushu Universit Japan & China						
3-5		F INTER-PLANT WATER NETWORK IN AN INDUSTRIAL PARK g XI, Xiaojuan XI (Tongji University), China					
3-6	ECOLOGICAL TECHNOLOGIE Chunjie LI, Hongmei LIU, Zhenjia Z	ILITY INTENSIFIED BY CALCIUM SILICATE HYDRATES (CSH) IN SS HANG (ShangHai JiaoTong University), Yasushi ISERI (West Japan Engineering Aimin HAO (Kyushu University), Japan & China					
14:50- 16:30	Garden Hall  B Session 4	Food Risk & Assessment Chair: Prof. Teruaki NANSEKI, Kyushu University					
4-1	SITUATION AND DETERMINA	NTS OF RURAL ENVIRONMENT IN CHINA: EVIDENCE FROM 6					
	, , , , , , , , , , , , , , , , , , ,	niversity), Min SONG (Chinese Academy of Agricultural Sciences), Teruaki NANSEKI, versity), Xiaoou GAO (Chinese Academy of Agricultural Sciences), Japan & China					
4-2	STUDY ON FARMERS' APPLICATION OF CHEMICAL PESTICIDES AND DETERMINANTS IN CHINA: BASED ON A SURVEY TO SIX EASTERN PROVINCIAL-LEVEL REGIONS  Dongpo LI, Teruaki NANSEKI, Shigeyoshi TAKEUCHI (Kyushu University), Min SONG (Chinese Academy of Agricultural Sciences), Tinggui CHEN (Shanghai Ocean University), Hui ZHOU (Kyushu University), Japan & China						
4-3	GARIN CROP Xiaoou GAO, Min SONG (Chinese	THEIR OWN AGRO-PRODUCTS SAFETY IN CHINA: A CASE STUDY ON  Academy of Agricultural Sciences), Hui ZHOU (Kyushu University), Tinggui CHEN aki NANSEKI, Shigeyoshi TAKEUCHI, Dongpo LI (Kyushu University), Japan & China					
4-4	CONSUMERS AND PRODUCE Hui ZHOU,Teruaki NANSEKI, Shige	ND AGRICULTURAL RISK IN CHINA -COMPARISON BETWEEN ERS- eyoshi TAKEUCHI (Kyushu University), Tinggui CHEN (Shanghai Ocean University), gricultural Sciences), Dongpo LI (Kyushu University), Japan and China					
4-5		FETY SITUATION OF LIVESTOCK PRODUCTS IN CHINA o XIAO (Chinese Academy of Agricultural Sciences), China					
4-6	THE BACTERIUM	ON OF LEAF LETTUCE CULTIVATED ON A SOIL INOCULATED WITH SHIMA, Nozomi KIDO, Satoko NAKASHIMA, Ken-ichi HONJOH (Kyushu University),					
4-7	AND FRESH VEGETABLES IN	. COLI CONTAMINATION OF COMMERCIALLY AVAILABLE RAW MEAT I CENTRAL CHINA Wuhan Polytechnic University) Takahisa MIYAMOTO (Kyushu University) Japan &					

Rui LI, Pingping ZHAI, Shijiao DAI (Wuhan Polytechnic University), Takahisa MIYAMOTO (Kyushu University), Japan &

China

16:30-18:00 Entrance Poster Presentation

#### A-1 [Urban Environment]

### THE IMPACT OF TEMPERATURE AND GAS-PHASE OXYGEN ON KINETICS OF CARBON DEGRADATION IN MUNICIPAL SOLID WASTE

Chuanfu WU, Takayuki SHIMAOKA, Teppei KOMIYA, Gangzhen JIAO (Kyushu University), Japan

#### A-2 [Urban Environment]

### MODELING OF THE DECHLORINATION EFFECT OF MSWI ASH WITH ADDITION OF SOLID WASTE IN LANDFILL SYSTEM

Yang SHUO, Takayuki SHIMAOKA, Teppei KOMIYA (Kyushu University), Japan

#### A-3 [Urban Environment]

#### COST ANALYSIS OF MUNICIPAL SOLID WASTE IN INDONESIAN'S MAJOR CITIES

Irwan Ridwan RAHIM, Hirofumi NAKAYAMA, Takayuki SHIMAOKA (Kyushu University), Japan

#### B-1 [Low-Carbon Society]

#### RE-GENERATION OF "WANATHAMULLA" AS AN ENGINE OF COLOMBO DEVELOPMENT

Yasunori AKASHI, Takeru SAKAI, Kentaro YAMAGUCHI, Koichiro AITANI, Prasanna DIVIGALPITIYA, Tomoyuki YAMAMOTO, Takayuki SHIMAOKA, Hirofumi NAKAYAMA, Takahiro KUBA, Mami SHINOZAKI (Kyushu University),

#### D-1 [Aqueous Environment and Hydrology]

### PROPOSAL OF AN ECO-ENGINEERING ENVIRONMENTAL IMPROVEMENT STRATEGY IN THE LAKE TAIHU, CHINA: A CONCEPT BASED ON THE WATER QUALITY AND THE BIOTA

Takahiro KUBA, Aimin HAO (Kyushu University), Yasushi ISERI (West Japan Engineering Consultants, Inc.), Yuxian LIU, Mingyang ZHANG (Kyushu University), Zhenjia ZHANG (ShangHai JiaoTong University), Japan & China

#### D-2 | [Aqueous Environment and Hydrology]

#### THE CONCEPTION OF ECOLOGICAL DAM

Yasushi ISERI (West Japan Engineering Consultants, Inc.), Takahiro KUBA, Aimin HAO (Kyushu University), Zhenjia ZHANG (ShangHai JiaoTong University), Japan & China

#### D-3 [Aqueous Environment and Hydrology]

### THE ASSESSMENT OF RESTORATION OF MOUNTAIN STREAM: CAST STUDY OF YAMATUKI STREAM

Yitao LIU, Yukihiro SHIMATANI, Tomomi YAMASHITA, Sinya IKEMATSU, Tatsuro SATO (Kyushu University), Japan

#### E-1 [Combating Desertification]

### ESTIMATION OF EVAPORATION FOR ANALYZING THE WATER BALANCE OF A FIELD IN THE YELLOW RIVER BASIN, CHINA, DURING A DORMANT SEASON

Makito MORI (Kochi University), Weizhen WANG (Cold and Arid Regions Environmental and Engineering Research Institute), Tetsuo KOBAYASHI(SPA & Water Press), Hiroyuki CHO (Saga University), Hisashi YOSHIKOSHI (Yamaguchi University), Yueru WU (Cold and Arid Regions Environmental and Engineering Research Institute), Daisuke YASUTAKE (Kochi University), Masaharu KITANO (Kyushu University), Japan & China

#### E-2 [Combating Desertification]

# WATER USE OF WIDELY PLANTED TREE SPECIES, ROBINIA PSEUDOACACIA AND ITS RESPONSE TO THE PRECIPITATION GRADIENT

Yoshiyuki MIYAZAWA (Kyushu University), Sheng DU (Chinese Academy of Sciences and Ministry of Water Resources), Kyoichi OTSUKI (Kyushu University), Norikazu YAMANAKA (Tottori University), Japan & China

#### E-3 [Combating Desertification]

### SUSTAINABLE PLANT PRODUCTION WITH SALINITY CONTROL IN THE UPPER YELLOW RIVER BASIN UNDER DESERTIFICATION

Weizhen WANG, Yueru WU (Cold and Arid Regions Environmental and Engineering Institute), Makito MORI, Daisuke YASUTAKE (Kochi University), Takuya ARAKI (Ehime University), Hiroyuki CHO (Saga University), Tetsuo KOBAYASHI (SPA & Water Press), Masaharu KITANO (Kyushu University), Japan & China

#### E-4 [Combating Desertification]

### ANALYSIS OF SOIL-WATER MOVEMENT BY USING HYDRUS-1D IN A MAIZE FIELD IN THE ARID REGION OF CHINA

Kenta TAGAWA (Kagoshima University), Hiroyuki CHO (Saga University), Masaharu KITANO (Kyushu University), Weizhen WANG (Cold and Arid Regions Environmental Engineering Research Institute), Japan & China

#### E-5 [Combating Desertification]

#### HOLOCENE ENVIRONMENTAL CHANGES IN KHUDER PEATLAND, NORTHERN MONGOLIA

Yu FUKUMOTO, Kaoru KASHIMA (Kyushu University), Alexander ORKHONSELENGE (Mongolian Academy of Sciences), Japan & Mongolia

#### E-6 [Combating Desertification]

# A KINETIC MODEL OF ROOT ION ABSORPTION INTEGRATED WITH EVAPOTRANSPIRATION FOR ESTIMATING SALT ACCUMULATION IN CROP FIELDS

Masaharu KITANO, Kenji EBIHARA, Motoki TAKATA, Daisuke SAKAMOTO, Yuki SAGO, Atsushi MARUI (Kyushu University), Daisuke YASUTAKE, Makito MORI (Kochi University), Hiroyuki CHO (Saga University), Takuya ARAKI (Ehime University), Tetsuo KOBAYASHI (SPA & Water Press), Weizhen WANG, Yueru WU (Cold and Arid Regions Environmental and Engineering Institute), Yongqing MA (Institute of Soil and Water Conservation), Norikazu YAMANAKA (Tottori University), Kyoichi OTSUKI (Kyushu University), Japan & China

#### E-7 [Combating Desertification]

### SEASONAL CHANGE IN SOIL SALINITY OF IRRIGATED FIELDS IN THE UPPER YELLOW RIVER BASIN

Daisuke YASUTAKE (Kochi University), Weizhen WANG (Cold and Arid Regions Environmental and Engineering Insttute), Tetsuo KOBAYASHI (SPA & Water Press), Yueru WU ( (Cold and Arid Regions Environmental and Engineering Insttute)), Takuya ARAKI (Ehime University), Hiroyuki CHO (Saga University), Makito MORI (Kochi University), Masaharu KITANO (Kyushu University), Japan & China

#### F-1 [Agro-Production]

# DAILY ESTIMATION OF RELATIVE HUMIDTY USING GPS-DERIVED PRECIPITABLE WATER VAPOR Makito MORI (Kochi University), Kazuaki HIRAMATSU, Masayoshi HARADA (Kyushu University), Hisashi YOSHIKOSHI (Yamaguchi University), Japan

#### G-1 [Atmospheric Environment]

### CATALYTIC OXIDATION OF HAZARDOUS AIR POLLUTANTS OVER PEROVSKITE OXIDES UNDER MICROWAVE IRRADIATION

Manabu ODA, Hisahiro EINAGA, Yasutake TERAOKA (Kyushu University), Japan

#### G-2 [Atmospheric Environment]

### CFD ANALYSIS OF PHOTOCATALYTIC REACTOR FOR TiO₂ CATALYZED ETHYLENE OXIDATION Junya TOKURA, Hisahiro EINAGA, Kazuhide ITO, Yasutake TERAOKA (Kyushu University), Japan

#### H-1 [Marine Environment]

#### SHORT-TERM VARIABILITIES IN THE TSUSHIMA/KOREA STRAITS

BoonSoon KANG, Jong-Hwan YOON, Takuya NAKAKOHARA (Kyushu University), Japan

#### H-2 [Marine Environment]

#### CONSTRUCTION OF WORKING UNDERWATER GLIDER FOR VIRTUAL MOORING

Masahiko NAKAMURA, Yuzuru ITO (Kyushu University), Japan

#### H-3 [Marine Environment]

### MEASUREMENTS OF VERTICAL TURBULENT FLUXES OF NITRATE AND CHLOROPHYLL-A INTO THE SURFACE MIXED LAYER

Takahiro ENDOH, Takeshi MATSUNO, Yutaka YOSHIKAWA (Kyushu University), Joji ISHIZAKA (Nagoya University),

#### H-4 [Marine Environment]

### GENERATION MECHANISM OF SMALL SCALE VELOCITY FLUCTUATION OFF BUSAN IN THE TSUSHIMA STRAIT

Kioshi MISHIRO, Tetsuo YANAGI, Jong Hwan YOON (Kyushu University), Japan

#### I-1 [Environmental Chemistry]

#### DEGRADATION OF LIQUID CRYSTAL BY HYDROTHERMAL METHOD

Xuning ZHUANG, Wenzhi HE, Guangming LI, Yingying YE (Tongji University), China

#### I-2 [Environmental Chemistry]

# DETERMINATIONS OF POLYCHLORINATED BIPHENYLS AND POLYCYCLIC AROMATIC HYDROCARBONS BY GAS CHROMATOGRAPHY / LASER MULTIPHOTON IONIZATION / TIME-OF-FLIGHT MASS SPECTROMETRY

Taiki MATSUI, Osamu SHITAMICHI (Kyushu University), Yamei HUI, Weiwei CHEN (Tsinghua University), Totaro IMASAKA (Kyushu University), Japan & China

### K-1 MITIGATING THE IMPACTS OF PARALYTIC SHELLFISH POISONING DURING HARMFUL ALGAL BLOOMS IN THE PHILIPPINES

Ulysses M. MONTOJO, Ronald Jefferson A. NARCEDA, Romnick Edison A. CAMBUSA (National Fisheries Research and Development Institute), Marc Lawrence J. ROMERO (Bureau of Fisheries and Aquatic Resources), Mirriam F. CAYME, Valeriano M. BORJAA (National Fisheries Research and Development Institute), Philippines

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10:20-	Garden Hall	0 : 5	Environmental Planning				
12:00	Α	Session 5	Chair : Associate Prof. Nobuhiro HORII, Kyushu University				
5-1		NVIRONMENTAL A (Daitoubunka Univ	PROBLEMS FROM THE MACRO POINT OF VIEW ersity), Japan				
5-2	TRANSFORMATION OF CHINA'S ENERGY STRUCTURE FROM DEPENDANCE ON COAL DURING THE 12th FIVE-YEAR PLAN PERIOD  Nobuhiro HORII (Kyushu University), Japan						
5-3	AN ASSESSMENT OF CARBON REDUCTION THROUGH GREEN TRANSPORTATION ACTIONS IN EXPO 2010 SHANGHAI CHINA Linhui ZENG, Guangming LI, Juwen HUANG, Lan LUO (Tongji University), China						
5-4			MENT IN CHINA AND CONSERVATION MEASURES itute for Environmental Studies), Japan				
10:20- 12:00	Garden Hall B	Session 6	Combating Desertification				
			Chair : Prof. Masaharu KITANO, Kyushu University				
6-1	Tetsuo KOBA  THE LONG-IN EAST AS	YASHI (SPA & Water	RUCTION OF PALEO-ENVIRONMENT AT ARID AND SEMI-ARID REGIONS				
6-3	QUANTITATIVE MONITORING ON SOIL SALINIZATION DEGREE IN THE MIDDLE STREAM OF HEIHE RIVER BASIN BASED ON THE TM IMAGE  Yueru WU, Weizhen WANG (Cold and Arid Regions Environmental and Engineering Institute), Makito MORI, Daisuke YASUTAKE (Kochi University), Hiroyuki CHO (Saga University), Tetsuo KOBAYASHI (SPA & Water Press), Masaharu KITANO (Kyushu University), Japan & China						
6-4	A GEOTECHNICAL COUNTERMEASURE FOR COMBATING DESERTIFICATION – SELF-WATERING SYSTEM IN UNSATURATED ARID GROUND Qiang LIU, Noriyuki YASUFUKU, Kiyoshi OMINE, Hemanta HAZARIKA (Kyushu University), Japan						
6-5	WEEDS IN T	HE LOESS PLAT	ED DIFFERENT SWITCHGRASS CUTIVAR ON THE GROWTH OF NATIVE EAU  JI (Northwest Sci-Tech University of Agriculture and Forestry), China				
6-6	AND Oroban Yongqing MA, University), Ya	che SPP. Junfeng SHUI (China Juniolin LI (Northwest A	DIFFERENT RICE (Oryza sativa L.) VARIETIES ON LETTUCE, WHEAT ese Academy of Sciences and Ministry of Water Resources, Northwest A & F & F University), Yu AN, Min LANG (Chinese Academy of Sciences and Ministry of (China National Rice Research Institute), China				

10:20-	Ho-man Hall	Session 7	Agro-Production Environment
12:00			Chair : Prof. Kazuaki HIRAMATSU, Kyushu University
7-1	FLOOD INUN	DATION ANALY	SIS USING A DISTRIBUTED TANK MODEL IN AN URBANIZING
	AGRICULTUR	AL AREA OF S	ONG NHUE HYDRAULIC STRUCTURE SCHEME IN HANOI
	Nguyen Manh H	IUNG, Le Van CHI	NH, Kazuaki HIRAMATSU, Masayoshi HARADA (Kyushu University), Dao Ngoc TUAN
	(Ministry of Agric	culture and Rural [	Development), Japan & Vietnam

# 7-2 OPTIMIZATION OF PARAMETERS FOR TWO CONCEPTUAL HYDROLOGICAL MODELS BY USING A GENETIC ALGORITHM

Trieu Anh NGOC, Kazuaki HIRAMATSU, Masayoshi HARADA (Kyushu University), Japan

### 7-3 APPLICATION OF SIMPLE GENETIC ALGORTHIMS FOR CALIBRATING AN AQUATIC ECOSYSTEM MODEL

Nguyen Thuy DO, Kazuaki HIRAMATSU, Masayoshi HARADA (Kyushu University), Japan

# 7-4 SIMULATION OF RAINFALL RUNOFF AND POLLUTANT LOAD USING A GIS-BASED DISTRIBUTED PARAMETER MODEL, A CASE STUDY IN CHIKUGO RIVER BASIN IN JAPAN

Le Van CHINH, Haruka ISERI, Kazuaki HIRAMATSU, Masayoshi HARADA (Kyushu University), Makito MORI (Kochi University), Japan

#### 7-5 BIOCHAR (POTENTIAL AND PERSPECTIVES)

Yoshiyuki SHINOGI, Yuusuke TASHITA, Oh Taek KEUN (Kyushu University), Japan

### 7-6 DEVELOPMENT OF FEASIBLE PRODUCTION PROCESS OF POLY-L-LACTATE PLASTIC FROM MUNICIPAL FOOD WASTE

Kenji SAKAI (Kyushu University), Saowanit TONGPIM, Mallika BOONMEE, Vichai LEELAVATCHARAMAS (KhonKaen University), Yoshihito SHIRAI (Kyushu Institute of Technology), Japan & Thailand

# 7-7 IDENTIFICATION OF THERMOTOLERANT BACILLUS SPECIES FROM MIXED CULTURE SYSTEM USEFUL FOR THE PRODUCTION OF OPTICALLY PURE L-LACTIC ACID

Pramod POUDEL, Hiroko MATSUMOTO, Yuki OKUGAWA, Kenji SAKAI (Kyushu University), Japan