



Japan Society on Water Environment (JSWE)
Green-Plaza-Fukagawa-Tokiwa #201
2-9-7 Tokiwa, Koto-ku, Tokyo 135-0006 Japan
Tel. +81-3-3632-5351 Fax. +81-3-3632-5352
<http://www.jswe.or.jp>

August 28, 2016

This is to certify that

Dr. NOORVY, Dian
Thribhuwana Tungadewi University, Indonesia

*had participated in the Water and Environment Technology Conference (WET2016) officially organized by Japan Society on Water Environment from 27th to 28th August, 2016, held at Chuo University Korakuen campus (1-13-27, Kasuga, Bunkyo-ku, Tokyo),
and had presented her presentation entitled “The Influence of Slope, Initial Water Content and Compaction Soil on Runoff and Infiltration for Urban Drainage” .*

SANO Daisuke,
Secretary of WET2016,
Japan Society on Water Environment
Associate Professor,
Hokkaido University



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June 22, 2016

Dr. Dian Noorvy Khaerudin
Faculty of Engineering, Tribuwana Tungadewi University, Indonesia
Jl. Telaga warna Blok C Tlogomas, Malang, East Java, 65144, Indonesia -

Dear Dr. Dian Noorvy Khaerudin,

We are pleased to invite you to the Water and Environment Technology Conference (WET2016) officially organized by Japan Society on Water Environment from 27th to 28th August, 2016, held at the Chuo University Korakuen campus (1-13-27, Kasuga, Bunkyo-ku, Tokyo, Japan).

It is our pleasure to announce you that your presentation entitled "The Influence of Slope, Initial Water Content and Compaction Soil on Runoff and Infiltration for Urban Drainage" has been accepted as hybrid-type (both oral and poster) presentation.

Please refer to our web site for details of this event.

<http://www.jswe.or.jp/extra/wet2016/index.html>

We are looking forward to welcoming you in Tokyo.

Sincerely yours,

SANO Daisuke,
Secretary of WET2016,
Japan Society on Water Environment
Associate Professor,
Hokkaido University

WET2016

Water and Environment Technology Conference 2016

27th-28th August 2016

Korakuen campus
Chuo University
Tokyo Japan

PROGRAM AND ABSTRACTS

Organized by



Japan Society on
Water Environment



Japan National Young
Water Professionals



Chuo University

Sponsored by



King Swing Corporation



WET2016 PROGRAM AND ABSTRACT

Water and Environment Technology Conference

August 27th-28th, 2016

Korakuen campus, Chuo University

DEAR COLLEAGUES,

Welcome to the Water and Environment Technology Conference 2016 (WET2016), held in Tokyo, Japan on the 27th-28th August 2016. The conference focuses on topics related to water environment, and provides a hybrid-type forum to promote exchange of information, ideas and knowledge among scientists, engineers and students. Scientific committee encourages participants to submit their manuscripts to the Journal of Water and Environment Technology (JWET), which is an official journal of the Japan Society on Water Environment (JSWE). Manuscripts submitted to JWET are subjected to the normal peer-review process.

CONFERENCE TOPICS

Conference topics include, but are not limited to the following:

- Analysis of water and environment quality
- Modeling of water and environment
- Treatment of water and wastewater
- Restoration of contaminated environment
- Hazardous chemicals and waste management
- Public health and risk assessment
- Environmental education and training
- Water reclamation

REGISTRATION

On-line registration was available for participants and speakers on the WET2016 website (<http://www.jswe.or.jp/extra/wet2016/>) by 28th July 2016 for early-bird registration. The registration fee is collected by cash (in Japanese Yen) on site. The fee covers participation to all scientific sessions and the abstract proceedings. The conference banquet is free of charge for all registered participants.

Students are required to show their student ID at the registration desk, otherwise the full registration fee is charged.

Full registration fee

	Participant	Speaker
Early-bird	5,000 JPY	5,000 JPY
On site	7,000 JPY	

Student registration fee

	Participant	Speaker
Early-bird	3,000 JPY	3,000 JPY
On site	4,000 JPY	---

PRESENTATION STYLE

All the presentations and discussions are made in a hybrid-type forum. Brief introduction should be made in the oral session prior to the poster viewing session. The official language is English.

PROGRAM OUTLINE

27th August

Morning : Registration desk open

Morning : Japan-YWP 5th International Symposium (Pre-conference event organized by Japan-YWP)

Noon : Lunch Break

Afternoon : Opening Ceremony (Invited lecture)

Afternoon : Conference (Oral introduction and poster viewing)

Evening : Banquet (sponsored by Swing Corporation)

28th August

Morning : Conference (Oral introduction and poster viewing)

Noon : Farewell lunch (sponsored by Swing Corporation)

Afternoon : Closing Ceremony

AWARDS

WET Excellent Paper Award

The WET Excellent Paper Award will be given for outstanding papers submitted to *JWET (Journal of Water and Environment Technology)* for WET conference, to acknowledge their scientific contribution to the field of Water and Environment Technology.

The awardees of WET Excellent Paper Award for WET2015 are invited to WET2016, give award lectures and win the award at the Opening Ceremony on 27th Aug (from 13:00).

The awardees of WET Excellent Paper Award for WET2016 will be invited to WET2017, where they will give award lectures and win the award.

WET Excellent Presentation Award

The WET Excellent Presentation Award will be given for outstanding presentations at WET2016. All presenters will be eligible for the award.

The awardees of WET Excellent Presentation Award will be announced at the closing ceremony on August 28th (from 14:30).

These awards are sponsored by Swing Corporation.

INQUIRY

Should you have any inquiries, please contact the registration desk.

INSTRUCTION FOR PRESENTERS

All presenters are asked to introduce your posters in oral introduction session prior to the poster viewing sessions.

1. Oral introduction presentation

- a) Prepare your presentation slides with Microsoft Powerpoint.
Laptop Windows PCs equipped with Office 2013 are prepared in the presentation rooms.
Macintosh PC is not available.
- b) Bring your presentation file by USB flash memory.
We strongly recommend you bring your file in more than one USB flash memories just in case.
- c) The file name should be your presentation number and your name.
For example, if my name is "SANO" and my presentation number is 1A-19, then the file name must be "1A-19sano".
- d) Strictly keep presentation time shorter than 4 (four) minutes.
Session chair may interrupt your presentation when 4 min passed.
- e) All the questions and discussion should be made at the poster viewing session.
No time for questions and discussion in the oral presentation.
- f) Install your presentation files to the PC in the session room at earliest occasion, at least by 5 minutes before your session starts.

Ask WET2016 staffs in the session room for assistance.

2. Poster viewing session

- a) Size of the poster board is 150 cm height and 90 cm width.
Prepare your poster to fit in the poster board.
- b) Push pins is available at the poster session floor.
- c) Put/remove your poster according to the following schedule;

For presenters on August 27th (1st day)

Stick up your poster by 14:00 on 27th.

Please DO NOT remove your poster before the second session ends (18:40 on 27th).

For presenters on August 28th (2nd day)

Stick up your poster by 9:00 on 28th.

Please DO NOT remove your poster before the second session ends (13:40 on 28th).

Note: Posters can be displayed during whole WET2016 conference; remaining poster after 15:00 on 28th will be removed and disposed by WET2016 staffs.

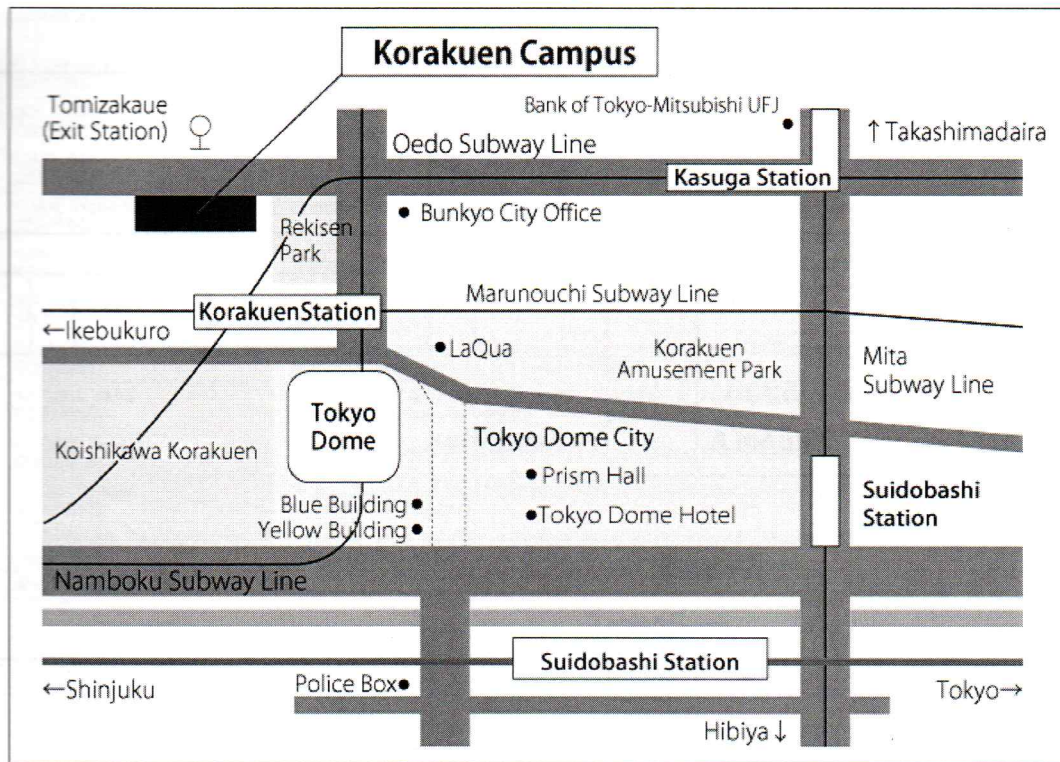
WET2016 Conference Program at a Glance

Date	Time slot	Session	Room A(2F)	Room B(2F)	Room C(1F)	Room D(1F)	Room E(1F)	Room F(1F)	
Sat. 27 Aug.	10:00-12:00	S01	Japan-YWP 5th International Symposium	-					
	12:00-13:00	Registration and Lunch break							
	13:00-13:50	S02	Opening Ceremony						
	14:00-15:20	S1	Oral introduction 1A	Oral introduction 1B					
	15:20-16:20		-	-	Poster viewing 1A	Poster viewing 1B			
	16:20-17:40	S2	Oral introduction 2A	Oral introduction 2B					
	17:40-18:40		-	-	Poster viewing 2A	Poster viewing 2B			
	18:50-	Conference dinner (complimentary)							

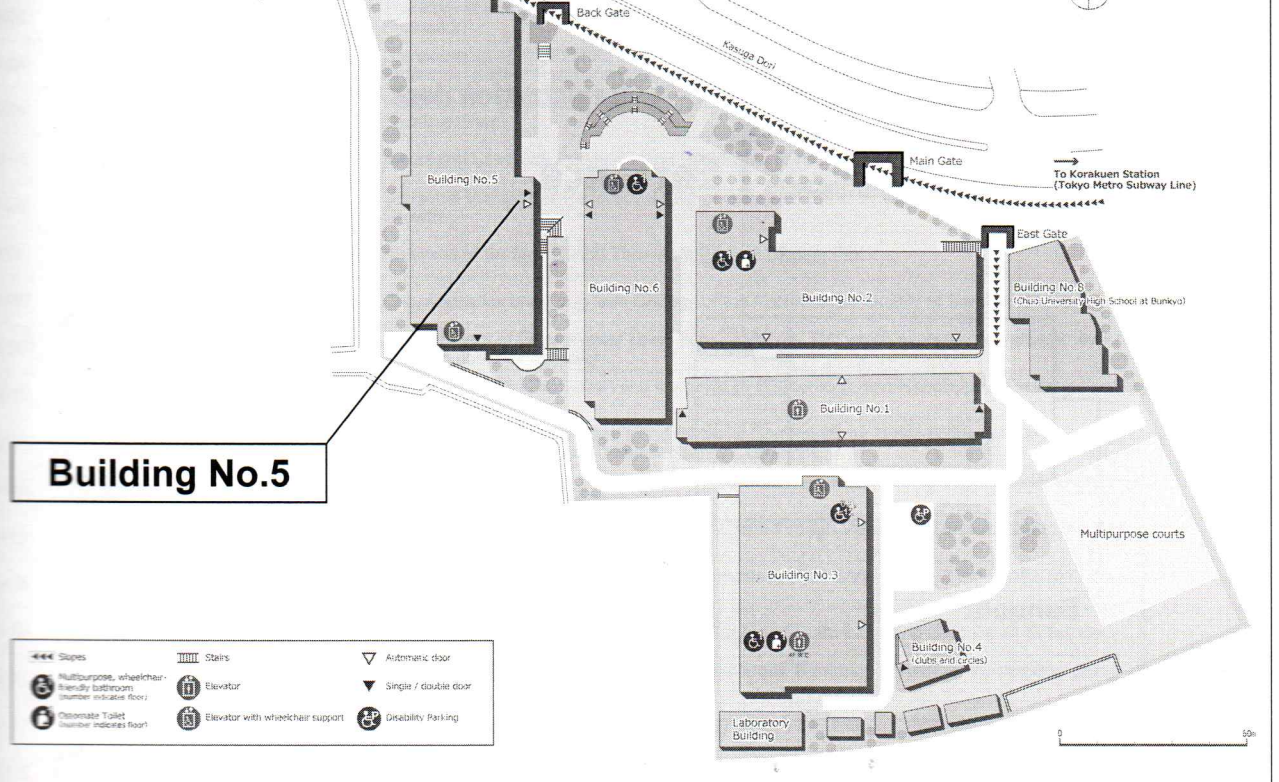
Date	Time slot	Session	Room A(2F)	Room B(2F)	Room C(1F)	Room D(1F)	Room E(1F)	Room F(1F)	
Sun. 28 Aug.	9:00-10:20	S3	Oral introduction 3A	Oral introduction 3B					
	10:20-11:20		-	-	Poster viewing 3A	Poster viewing 3B			
	11:20-12:40	S4	Oral introduction 4A	Oral introduction 4B					
	12:40-13:40		-	-	Poster viewing 4A	Poster viewing 4B			
	13:40-14:30	Farewell Lunch (complimentary)							
	14:30-	S03	Closing Ceremony						

Access Map

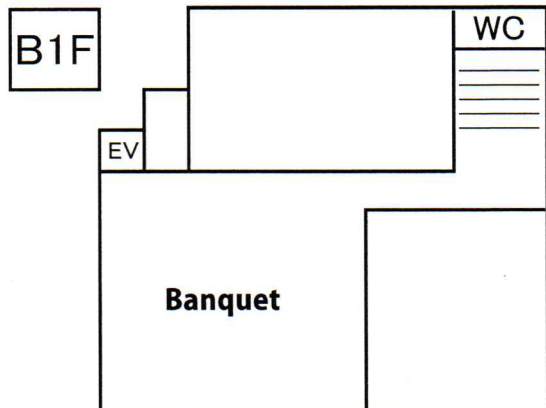
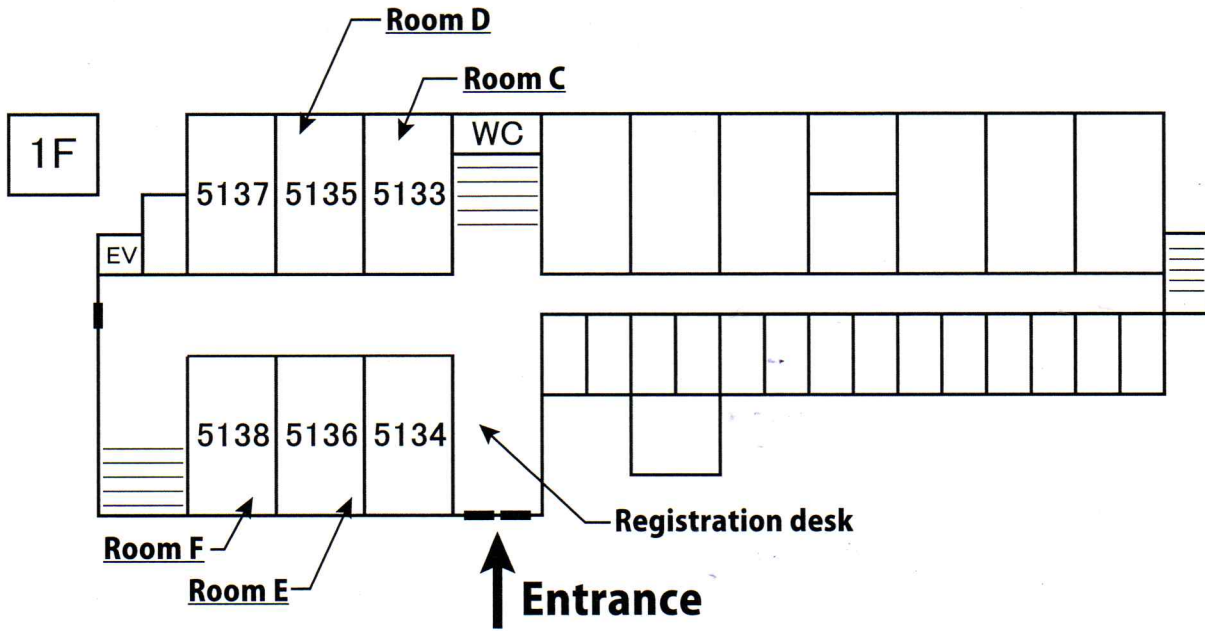
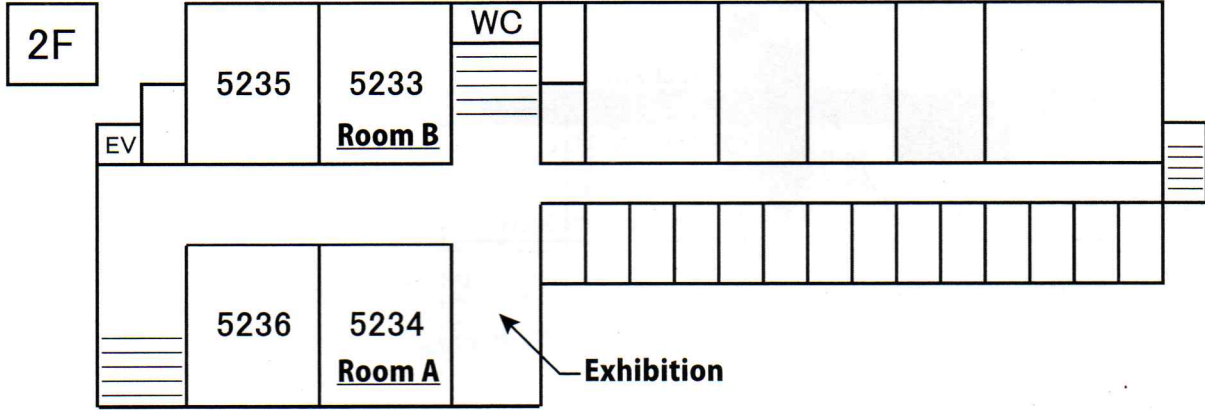
Korakuen Campus (1-13-27 Kasuga, Bunkyo-ku, Tokyo 112-8551, Japan)



Chuo University Korakuen Campus Barrier-free Map



Building NO. 5



WET2016 Technical Program

Session	Speaker	Title	Page
Saturday, August 27th Session 1A			Chair: TERADA Akihiko
Oral presentation: 14:00-15:20, Poster viewing: 15:20-16:20 Put up poster by 14:00, Saturday, August 27th			
1A-01	Sindhu, NT (00012597)	Assessment of Alternative Disposal Methods to Reduce Greenhouse Gas Emissions from Municipal Solid Waste in India	1
1A-02	HARIBOWO, Riyanto (00012599)	Development of Seawater Distiller Using Electrical Energy for Sustainable Clean Water Production	1
1A-03	KUWAHARA, Hitomi (00012600)	Relationship between Cell Growth and Luminescence of Marine Luminous Bacteria in Artificial Sea Water and Sea Water Medium	2
1A-04	LEE, Taeho (00012603)	Biological and Bioelectrochemical Recovery of Selenium by a Selenite-Reducing Bacterium Isolated from Domestic Wastewater	2
1A-05	QIAO, Wei (00012604)	Comparison of Thermophilic and Hyperthermophilic Pretreatment of Food Waste for Bio-Energy Production	3
1A-06	KUAN, Wen-Hui (00012608)	Transformation of Iodine Speciation in Mn-Oxides Suspension under Artificial Sunlight Source Irradiation	3
1A-07	HANAOKA, Tsubasa (00012735)	Nitrogen Removal Ability and Biomass Productivity by Various Duckweeds in Different Wastewaters.	4
1A-08	NOORVY, Dian (00012610)	The Influence of Slope, Initial Water Content and Compaction Soil on Runoff and Infiltration for Urban Drainage	4
1A-09	PHUNGSAI, Phanwatt (00012611)	Reproducibility of Orbitrap Mass Spectrometry in Unknown Screening Analysis of Dissolved Organic Matter in Environmental and Urban Water	5
1A-10	HAFUKA, Akira (00012615)	Application of Anaerobic Membrane Bioreactor to Digestion and Thickening of Excess Sludge from Aerobic Membrane bioreactor	5
1A-11	NOZAKI, Takuya (00012616)	Influence of Gd ₂ O ₃ Addition to CeO ₂ Photocatalyst on the Removal of Lead Ions from Water	6
1A-12	ANZAI, Tatsuki (00012617)	Removal of Hazardous Materials in Water Environment by Rice Hull Magnetic Activated Carbon and Magnetic Separation	6
1A-13	SUGAWARA, Tsuyoshi (00012618)	Valuable Resource Recovery from Water Environment by Magnetic Zeolite and High Gradient Magnetic Separation ✓	7
1A-14	WANG, Jianing (00012619)	Relationship between River Landscape and Fish-habitat in Yamaguchi Prefecture. ✓	7
1A-15	BHUYAN, Jayatu Kanta (00012642)	Differences in Maximum Mixing Depth for Positive Net Primary Production of Phytoplankton Due to Relationships Between Photosynthesis and Irradiance ✓	8
1A-16	SONAKA, Hideaki (00012644)	Development of Wastewater Treatment System with Resource Recovery for Natural Rubber Industry	8
1A-17	MIKAWA, Masahiro ✓ (00012655)	Modelling the Competitive Growth Patterns of <i>Microcystis Aeruginosa</i> and <i>Cyclotella</i> sp. under Various Nitrogen Concentrations and Daily Renewal Rates	9
1A-18	SUGIYAMA, Kazuya (00012643)	Isolation and Characterization of Microorganisms Playing a Role of Low Concentration Ammonia Oxidation	9
Saturday, August 27th Session 1B			Chair: WATANABE Tomohide
Oral presentation: 14:00-15:20, Poster viewing: 15:20-16:20 Put up poster by 14:00, Saturday, August 27th			
1B-01	AIHARA, Shingo(00012621)	Applicability of Gypsum as a Calcium Source for Phosphorus Removal by Crystallization	10
1B-02	TSAI, Pei-Chen(00012622)	The Role of Extracellular Polysaccharides and Calcium Ion Inducing <i>Microcystis Aeruginosa</i> Colony Formation	10
1B-03	FUJIIHARA, Takuya(00012624)	Development of Appropriate Treatment System for Palm Oil Mill Effluent by a Combined System of an Anaerobic Baffled Reactor and Down-flow Hanging Sponge Reactor	11
1B-04	KANDA, Ryo(00012625)	Influence of Temperature and COD Loading on Biological Nitrification-Denitrification Process Using a Trickling Filter	11
1B-05	SHOLICHIN, Mohammad(00012626)	Assessing Landslide Potential using GIS, Konto River, Indonesia	12
1B-06	TAKEDA, Fumihiko(00012627)	Seasonal Variation of Reduction Ability of Biological Effect by Wastewater Treatment Based on Algal Growth	12
1B-07	SEDYOWATI, Laksni(00012628)	Analyses of Surface Runoff Through a Flexible Sloping Plot	13
1B-08	YAMAMOTO, Yuko(00012629)	Characteristics and Long-term Change of the Groundwater Quality of Sarobetsu Mire	13
1B-09	SUENAGA, Yuichi(00012630)	Development of Groundwater Level Tank Model (GLTM) which express groundwater level fluctuation showing complex behavior	14
1B-10	MANALO, Cervinia Velasco(00012631)	Suspended Solid Deposition and Removal by Hypochlorite and Nanobubble Treatment on Reverse Osmosis Membranes	14
1B-11	KOGA, Yuki(00012632)	Nitrogen-removal Performance and Bacterial Community by Mixed-culture of Marine- and Freshwater-Anammox Bacteria under Different Salinity Conditions	15
1B-12	TRAN, Bach Viet(00012633)	Estimation of Nitrogen Load under Complex Pollution Sources using SWAT Model: a Case Study in the Cau River Basin, Northern Vietnam	15
1B-13	SHRESTHA, SHANKAR(00012634)	Health Risk Assessment from Enteropathogens through Vegetable Consumption in the Kathmandu Valley, Nepal.	16
1B-14	NGUYEN, Gia(00012635)	Modified Disability Weights for Diarrhea Diseases Based on Feeling of Flood-affected People in Asian Developing Countries	16
1B-15	ALY, Shahira Said(00012637)	Biohydrogen Production with Low Tidal Flat Mixed Culture Utilizing Glucose as Substrate	17
1B-16	SOIDA, Masaki(00012704)	Nitrogen and Phosphorus Removal in Continuous Treatment of Artificial Wastewater Using Microalgae	17
1B-17	HARA, Kohei(00012638)	Degradation of N-Nitrosodimethylamine by Slurry Fluidized TiO ₂ Photocatalysts	18
1B-18	TSUSHIMA, Ikuo(00012639)	Impact of Dissolved Matter Fractions in River Samples on Human Hepatoma (HepG2) Cells and Aquatic Organisms	18

WET2016 Technical Program

Saturday, August 27th Session 1A

Chair: TERADA Akihiko

Oral presentation: 14:00-15:20, Poster viewing: 15:20-16:20

Put up poster by 14:00, Saturday, August 27th

1A-01	Sindhu, NT (00012597)	Assessment of Alternative Disposal Methods to Reduce Greenhouse Gas Emissions from Municipal Solid Waste in India
1A-02	HARIBOWO, Riyanto (00012599)	Development of Seawater Distiller Using Electrical Energy for Sustainable Clean Water Production
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Saturday, August 27th

Session 1A Oral presentation: 14:00-15:20, Poster viewing: 15:20-16:20

Chair: TERADA Akihiko

1A-01

Assessment of Alternative Disposal Methods to Reduce Greenhouse Gas Emissions from Municipal Solid Waste in India

Sudhakar YEDLA*, **Sindhu NT******Indira Gandhi Institute of Development Research, Mumbai****KITCO, Kochi, India*

Open dumping, the most commonly practiced method of solid waste disposal in Indian cities, creates serious environment and economic challenges, and also contributes significantly to GHG emissions. The present paper attempts to analyse and identify economically effective ways to reduce GHG emissions from municipal solid waste (MSW). The paper looks at the selection of appropriate methods for the control of methane emissions. Multivariate functional models are presented, based on theoretical considerations as well as the field measurements to forecast the GHG mitigation potential for all the methodologies under consideration. Economic feasibility is tested by calculating the unit cost of waste disposal for the respective disposal process. The Purpose Built Landfill System (PBLF) system proposed by Yedla and Parikh has shown promise in controlling GHG and saving land. However, these studies show that aerobic composting offers the optimal method both in terms of controlling GHG emissions and reducing costs, mainly by requiring less land than other methods.

1A-02

Development of Seawater Distiller Using Electrical Energy for Sustainable Clean Water Production

Riyanto HARIBOWO*, **Emma YULIANI***, **Andi G PRASETYA*****Department of Water Resources Engineering, Brawijaya University, Malang 65145 Indonesia*

Distillation is one of the methods used to process seawater into fresh water. The purpose of this study was to develop seawater distiller that can be used to purify water by utilizing electrical energy to power heating elements used in the condensation phase of distillation. Variations on the number of water heating elements and the water level in the evaporator unit were analyzed to determine the ideal device configuration. The distillation instrument consisted of three parts: a container unit, water level control unit, and evaporation chamber unit. The distillation process was conducted with a water level in the evaporation unit of 8 cm in Experiment 1 and 4 cm in Experiment 2, and one to six water heating elements in various configurations over eight tests in each experiment. The seawater used was taken from the Indian Ocean off Balekambang Beach, Malang Regency, Indonesia. The largest quantity of purified water obtained among the 16 experimental conditions was the 3.94 liters obtained in test number VIII, which used six centralized heating elements and a water level of 4 cm in the evaporation unit.

1A-07

Nitrogen Removal Ability and Biomass Productivity by Various Duckweeds in Different Wastewaters

Tsubasa HANAOKA, Tadashi TOYAMA, Yan LI, Yasuhiro TANAKA, Kazuhiro MORI

Interdisciplinary Graduate School of Medicine, Engineering, and Agricultural Sciences, University of Yamanashi 400-0016 Japan

Duckweeds in the subfamily Lemnaceae are the smallest aquatic plants. Duckweeds are a promising crop that offers a co-benefit culture system combining water purification with bioresource production because of their high growth rate, high nitrogen uptake and high starch accumulation. In this study, nitrogen removal ability and biomass productivity by four duckweed species, *Lemna minor*, *Lemna gibba*, *Landoltia punctata* and *Spirodela polyrhiza*, were compared in bench-scale pot experiment. Each duckweed was cultured in pot containing three different wastewaters, secondary effluent of sewage treatment, swine wastewater and anaerobic digestion effluent. All four duckweeds effectively removed nitrogen from all wastewaters. For example, total nitrogen removal rate of *L. minor*, *L. gibba*, *L. punctata* and *S. polyrhiza* from swine wastewater were 14.2, 13.1, 13.5 and 14.2 N mg/L/d, respectively. *S. polyrhiza* biomass produced in swine wastewater was 33% carbon content, 4.5% nitrogen content, 5.2% starch content and 16 kJ/g calorific value. The *S. polyrhiza* biomass was prepared easily by heating at 121°C for saccharification and fermentation process. The ethanol yield from the biomass was about 0.17 g/g of dry weight. The results strongly indicate that duckweeds are applicable for nitrogen removal from wastewaters and biofuel production.

1A-08

The Influence of Slope, Initial Water Content and Compaction Soil on Runoff and Infiltration for Urban Drainage

Dian NOORVY*, Donny HARISUSENO, Agus SUHARYANTO*****

**Department of Civil Engineering, Thribhuwana Tungga Dewi University, Malang 65144 Indonesia*

***Department of Water Resources Engineering, Brawijaya University, Malang 65145 Indonesia*

****Department of Civil Engineering, Brawijaya University, Malang 65145 Indonesia*

The hydrological processes in the urban drainage are rainfall, runoff, and infiltration. This phenomenon of water balance occurs to be the concept of urban drainage. Hydrological problems cannot be solved just by linking two variables or see the influence of one variable against another variable, so this research aims to find out how the relationship soil density, initial moisture content, and slope of land can influence together in the event of rain, runoff and infiltration. This research with experimental methods using a rainfall simulator. Based on the results of the study, the density and the slope will effect positive against the runoff, the higher the density, the greater the runoff it will occur, but will affect negatively to infiltration. Both of these variables when added with variable initial moisture content, then on the third condition variable it is high, it will be a positive effect against runoff, i.e. the higher the third variable it will be the higher the runoff. However, in the process of rainfall infiltration and runoff, there were other influences, namely time. The time that occurs in the process it is time start percolating, the time is balanced between the runoff and infiltration, and time to constant.



Yayasan Bina Patria Nusantara Malang

UNIVERSITAS TRIBHUWANA TUNGGADEWI MALANG

Jl. Telaga Warna, Tlogomas, Malang 65144 - Indonesia, Telp. 0341 - 565500, Fax 0341 - 565522

Fakultas : Pertanian, Teknik, Ekonomi, Ilmu Sosial dan Ilmu Politik, Ilmu Kesehatan

Program Pascasarjana : Manajemen Agribisnis, Administrasi Publik

Program Diploma : Diploma IV Bidang Pendidik

SURAT TUGAS

Nomor : 740/ TB.KP-440 /VII/ 2016

Yang bertanda tangan di bawah ini:

Nama : Prof. Dr. Ir. Wani Hadi Utomo
NIP : 19491204 197412 1 001
Jabatan : Rektor
Universitas Tribhuwana Tunggadewi Malang

Memberikan Tugas kepada Dosen berikut:

Nama : Dian Noorvy K, ST., MT
NIP : 197603192005012002
Jabatan : Dosen Program Studi Teknik Sipil Fakultas Teknik
Universitas Tribhuwana Tunggadewi Malang

Untuk mengikuti kegiatan "The Water and Environment Technology Conference 2016 (WET-2016)" di Chuo University Korakuen Campus (1-13-27, Kasuga, Bunkyo-ku, Tokyo, Japan).

Demikian surat tugas ini dibuat, untuk digunakan sebagaimana mestinya.

Malang, 12 Juli 2016

Rektor,



Prof. Dr. Ir. Wani Hadi Utomo

NIP. 19491204 197412 1 001



Yayasan Bina Patria Nusantara Malang
UNIVERSITAS TRIBHUWANA TUNGGADEWI MALANG
FAKULTAS TEKNIK

Jl. Telaga Warna, Tlogomas, Malang 65144 - Indonesia, Telp. (0341) 565500, Fax. (0341) 565522
Program Studi : Teknik Sipil, Teknik Kimia

SURAT TUGAS

Nomor : 782/TB.FT/TU-350/VI/2016

Yang bertanda tangan di bawah ini:

Nama : Dr. Nawir Rasidi, ST., MT
NIP : 19710604 199702 1 002
Pangkat : Pembina / IV a
Jabatan : Lektor Kepala / Dekan Fakultas Teknik Universitas Tribhuwana Tungga Dewi

Menugaskan kepada Saudara :

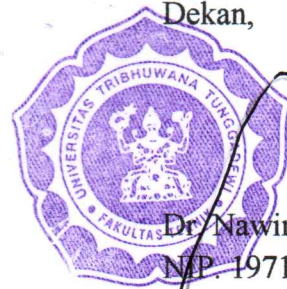
Nama : Dian Noorvy Khaerudin, ST., MT
NIP : 19760319 200501 2 002
Pangkat : Penata / III c
Jabatan : Lektor / Dosen DPK Kopertis Wilayah VII Jatim

Untuk mengikuti kegiatan "The Water and Environment Technology Conference 2016 (WET - 2016)" di Chuo University, Tokyo – Jepang pada tanggal 27-28 Agustus 2016 sebagai pemakalah.

Demikian Surat Tugas ini dibuat untuk dapat dilaksanakan.

Malang, 24 Juni 2016

Dekan,



Dr. Nawir Rasidi, ST., MT
NIP. 19710604 199702 1 002