



INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE



• CERTIFICATE OF APPRECIATION •

This certificate is presented to

Abdi S. Telaga

for an active participation in the
International Conference on Sustainable Infrastructure 2019 as:

Presenter

hosted by Department of Civil Engineering and Planning
Faculty of Engineering, Yogyakarta State University



Dean of Faculty of Engineering

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Prof. Drs. Herman Dwi Surjono, M.Sc., M.T., Ph.D
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2nd INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE (ICSI 2019)

SCHEDULE FOR PARALLEL SESSIONS

ROOM 1 (VIOLET)

Moderator: Dr. Sunar Rochmadi

Liaison Officer: Sayed M Aldy & Cantikha Vira RF

SESSION	TOPIC	PRESENTATION TITLE
PARALLEL SESSION 1 13.30-15.00	Development of human resources in sustainable infrastructure	<ol style="list-style-type: none"> 1. Contribution of Organizational Commitment to Improving Employee Performance in Building Infrastructure - Fajar Susilowati 2. Relevance of Curriculum Vocational High School of The Building Construction Engineering in Preparing Infrastructure Labor in Indonesia - Amat Jaedun <li style="background-color: yellow;">3. Integration of Building Information Modelling in Building Construction Engineering Education in An Indonesian Vocational Higher Education - Abdi S. Telaga 4. Marine Tourism Infrastructure and Human Resources Development - Bakti Wibawa 5. Characteristic of Rider Behavior and Technology Influence Toward Road Traffic Safety - Danny Setiawan 6. Analysis of Serang City Infrastructure Service Satisfaction Index and Direction of Utilization of Additional General Allocation Fund (DAU-T) for Urban Infrastructure Development - Erti Nurfindarti
PARALLEL SESSION 2 15.30-17.00	Geotechnical, geodetical, and river engineering	<ol style="list-style-type: none"> 1. Improvement of Expansive Soils Stabilized with Rice Husk Ash (RHA) - Daryati 2. Distribution of Degree of Swelling, Organic Contents, and The Relationship With The Clay Properties in Godong-Purwodadi Road Central Java Indonesia - Kresno Wikan 3. Study of Sediment Transport in Krueng Meureubo River of Padang Mancang Village Kaway XVI District Aceh Barat District – Muhammad Ikhsan 4. The Effect of Combination Variations Installing Check Dam and Bronjong Stone at River Shell Using Laboratory Model Test – Nur Ahmad Khoirudin 5. Study of CBR Values in Soil Stabilization Using Bamboo Leaf Ash – William Wijaya 6. Error Review That Happened to The Results of Digital Map Shapefile Products Produced From The Use Of Global Mapper V20.0 Software and Arcgis 10.3 - Ilham Marsudi

ROOM 2 (LAVENDER)
Moderator: Maris Setyo Nugroho, M.Eng.
Liaison Officer: Eko Yogi S & Ella Rachma I

SESSION	TOPIC	PRESENTATION TITLE
PARALLEL SESSION 1 13.30-15.00	Sustainable construction technologies and management	<ol style="list-style-type: none"> 1. Evaluating the Project Management Body of Knowledge's Guidance Compliancy for the Indonesian Construction Project – Toriq Arif Ghuzdewan 2. Value Engineering in The Formwork Work Implementation Method Using "Kumkang Formwork" Case Study: The Alton Apartment Project in Tembalang, Semarang - Putri Anggi Permata 3. The Scientometric Approach of Mapping Sustainable Green Infrastructure Research Developments – Deddy Purnomo Retno 4. Modelling Evacuation Routes in Vulcanic Disaster (Case Study: Merapi Mountain, Yogyakarta) – Abul Fida Ismaili 5. Development of subsidized housing with environmentally friendly transportation: a case of housing in the border area of Semarang City and Kendal District - Anik Indriyanti 6. Risk Management Affecting the Cost and Time of The Structure Work Development Project of High-Level Building (Case Study of The Alton Apartment Tembalang City Semarang Project) - Ibnu Toto Husodo
PARALLEL SESSION 2 15.30-17.00		<ol style="list-style-type: none"> 1. Symbiotic Organisms Search Algorithm for Solving the Construction Resource Leveling Problem Considering Multiple Criteria - Doddy Prayogo 2. Cost forecasting using vulnerability curve in the case of excusable delay project due to earthquake influence - Mohammad Ihsab 3. Optimizing Prediction Accuracy of Concrete Mixture Behavior Using Hybrid K-means Clustering and Ensemble Machine Learning Methods - Dennis Wijaya 4. Analysis Of Damage Level And Reconstruction Priority Of Elementary School Buildings In Central Lombok District Using AHP Method - Saifullah 5. Fundamental study of tensile strength and failure mechanism of anchor bolts in concrete under the pull-out loading using SPH method - Hariyadi 6. Prediction of Concrete Properties Using Ensemble Machine Learning Methods - David Immanuel Santoso

ROOM 3 (MAGNOLIA)

Moderator: Faqih Ma'arif, M.Eng

Liaison Officer: Satria Warnandes & Khairunnisa NH

SESSION	TOPIC	PRESENTATION TITLE
PARALLEL SESSION 1 13.30-15.00	Sustainable construction technologies and management	<ol style="list-style-type: none"> 1. Innovative, Eco Friendly, and Economical Particle Panel Boards Based on Beach Waste - Sutarja, I. N. 2. Comparative Study of Particle Swarm Optimization Algorithms in Solving Size, Topology, and Shape Optimization - Kenneth Harsono 3. Reliability-Based Design Optimization of Structure Using Particle Swarm Optimization - Gretel Gaby 4. Integration of BIM and GIS in Supply Chain Management Analysis UMY Dormitory Case Study - Yoga Apriyanto Harsoyo 5. Mud Content Evaluation on Sand Used as Building Material Using Inferential Statistics: A Case Study in Lombok, Indonesia – Mulyadi 6. Effect of Poor Foundation Design to The Sustainability of Building: A Case Study of Foundation Improvement In 5-Story Building in Indonesia - Kartika Nur Rahma Putri 7. Umpak Foundation Assessment in Rumahgadang As Cultural Heritage Building to Decrease Earthquake Disaster Risk - Rafki Imani 8. Simple Ergonomic Instant House with Lightweight Steel Structure, Bracing, and Local Wood Wall - Sutarja, I. N.
PARALLEL SESSION 2 15.30-17.00		<ol style="list-style-type: none"> 1. The Effect of Rice Husk Ash on Workability and Strength in Self Compacting Concrete of Sustainable Concrete -Rima Sri Agustin 2. Mechanical Properties Of Lightweight Concrete Using Class F Fly Ash as a Partial Replacement For Ordinary Portland Cement - I Made Alit Karyawan Salain 3. Utilization Of Local Waste Polymesoda Erosa Shell As A Partial Substitution Of Coarse Aggregate Which Is Smart Construction Materials In High Quality Concrete Mix- Garry Marpahiko 4. Effectiveness of Glass Powder as a Partial Replacement of Sand in Concrete Mixtures - Hendramawat Aski Safarizki 5. The Influence Of Bamboo Fiber Addition On The Mechanical Properties Of High Strength Concrete - Andi Yusra 6. Analysis the effect of various support distance to the bond-strength of plain anchor bolt in concrete - Ajeng Larasati Pradipta 7. Physical Properties of Paving Block from Recycled LDPE Polymer and Stone Ash Waste - Yudhi Arnandha

ROOM 4 (HELICONIA)
Moderator: Abdul Malik, M.Pd.
Liaison Officer: Isnan Iga T & Rosalina D

SESSION	TOPIC	PRESENTATION TITLE
<p style="text-align: center;">PARALLEL SESSION 1</p> <p style="text-align: center;">13.30-15.00</p>	<p style="text-align: center;">Sustainable construction technologies, water engineering and management</p>	<ol style="list-style-type: none"> 1. Flexural Strength of Composite Sandwich Panel Made of Aluminium Skin and Sengon Wood Core Innovative - Jauhar Fajrin 2. The Flexural Capacity Study of High Strength Reinforced Concrete Beams Used Palm Oil Clinkers as Additives - Andi Yusra 3. The Study on Modulus of Elasticity (MoE) And Modulus of Rupture (MoR) Of Lamina Beams on The Lime Wood (Dryobalanops Spp) - Joko Suryono 4. Analysis of Double Shear Timber Connection with Angle Variation by Using Bamboo Dowel Fastener With Adhesive Coated - Buan Anshari 5. Prediction of Concrete Compressive Strength Using Artificial Intelligence Methods - Hanesha Nithalya Muliauwan 6. Study of Wave Deformation Arround Floating Breakwater - A. Bagyo Widagdo
<p style="text-align: center;">PARALLEL SESSION 2</p> <p style="text-align: center;">15.30-17.00</p>		<ol style="list-style-type: none"> 1. Implementation Photography as A Media and Supports in Construction Era 4.0 At the Civil Engineering for The Construction Design to Face Tidal Floods Due to Global Warming - Surya Hermawan 2. An Investigation of Wave Forces Acting on Vertical Coastal Structure - A. Bagyo Widagdo 3. Wave Model for The Design of Sustainable Coastal Infrastructures at An Industrial Site in Tuban, East Java - Wahyu Hendriyono 4. Design of Composite Rubble Mound Structure for Sustainable Function of Existing Breakwater - Dinar Caturistiyanto 5. Design of A Spun Pile Wall Vertical Breakwater for The Improvement of a Damaged Celullar Coferdam - Aris Subarkah 6. Utilisation Of the Hydrodynamic Numerical Model to Face Rob Floods in Coastal Areas in The Industrial Revolution Era 4.0 At East Java Indonesia - Surya Hermawan

ROOM 5 (TULIP)

Moderator: M. Nuruzzaman, M.Pd.
Liaison Officer: Irwan A & Tri Uji KK

SESSION	TOPIC	PRESENTATION TITLE
PARALLEL SESSION 1 13.30-15.00	Sustainable construction technologies and management	<ol style="list-style-type: none"> 1. Sediment Transport Modeling at Jelitik Estuary, Sungailiat District- Bangka Regency to Know Effectiveness of Sediment Control Structure – Mardi Wibowo 2. Determination of Construction Design to Reduce the Marine Litter at Seawater Intake Using Particle Tracking Module of Numerical Method By Mike 21 (Case Study: Awar - Awar Foreland, Tuban, East Java) - Hanah Khoirunnisa 3. Decision Support System for Selecting Type of Moveable Dam to Handle Tidal Flood Issued (A Case Study in The Parid River, Kawunganten, Cilacap Regency, Indonesia) - Henny Pratiwi Adi 4. Sustainable Design for Passage Boat Ports in Remote Areas in Era Construction 4.0 At Sidoarjo East Java Indonesia - Surya Hermawan 5. BPPT-Lock Armor Unit Implementation for Improving Breakwater Sustainability at The Pacitan Power Plant - Zuhdan Jauzi 6. Tsunami Model of Mount Anak Krakatau To Estimate the Potential Hazard of The Coastal Infrastructures in Sunda Strait - Widjo Kongko 7. Modeling of Swell Propagation and High Wave for Sunda Strait, Indonesia. - Hendra Achiari
PARALLEL SESSION 2 15.30-17.00	Sustainable Road Engineering and Transportation System	<ol style="list-style-type: none"> 1. Member Sizing Optimization of Steel Space Trusses Designed Based on AISC 360-10 Using Symbiotic Organisms Search Algorithm - Foek Tjong Won 2. Structural Analysis of Lightweight Steel Roof Truss Post Office Branches Loa Janan - Yudi Pranoto 3. Disaster Mitigation of Scouring for The Substructure of Bridge - N. Retno Setiati 4. Effect of Bridge Piers at Alue Buloh On Local Scouring - Cut Suciatina Silvia 5. Experimental Study on Marshall Stability and Flow of Asphalt Concrete Wearing Course (Ac-Wc) Mixture Using Asbuton Semi Extracted as Binder - Iis Roin Widiati 6. The Effect of Combining Coal Fly Ash and Lokan Shells as Filler Towards the Mixture of Asphalt Concrete Wearing Course – Chaira

ROOM 6 (CARNATION)
Moderator: Arum Dwi H, M.Pd.
Liaison Officer: Taufiq Aziz & Hanifah Nurul P

SESSION	TOPIC	PRESENTATION TITLE
<p style="text-align: center;">PARALLEL SESSION 1</p> <p style="text-align: center;">13.30-15.00</p>	<p>Sustainable Road Engineering and Transportation System</p>	<ol style="list-style-type: none"> 1. Increased Delivery Cargo by Container Ship to Minimize Cost – Sutini 2. Correlation Model Between Estimated Project Cost and Net Present Value (NPV) On Transportation Infrastructure Projects Using Public Private Partnership (PPP) Scheme - Rizky Citra Islami 3. Determining Transit-Oriented Development Success in Indonesia: A Traditional Literature Review - Yusfita Chrisnawati 4. Free Feeder/Bus Ticketing Systems for Students in Surakarta City Based on Android Platform - Setiono 5. Analysis of highway rates based on ability to pay (ATP) and willingness to pay (WTP) (case study: plan for Semarang harbor highway) - Muhammad Asin Zubet 6. Study of Standard Trip Attraction Models of Various Land Use in The Surakarta City - Budi Yulianto 7. Laboratory Measurement of Elastic Modulus and Vertical Deformation on Ballast Fouled Materials - Sri Atmaja P. Rosyidi
<p style="text-align: center;">PARALLEL SESSION 2</p> <p style="text-align: center;">15.30-17.00</p>		<ol style="list-style-type: none"> 1. Multi-Hazards Analysis on Railway Track of Cirebon-Semarang Using SIG - Sri Atmaja P. Rosyidi 2. The Study Degree of Saturation on Toll Road Access Based on Changes in Urban Settlement Land - Juang Akbardin 3. The Effect of Traffic Movement Design Study at The Manahan Flyover to The Road Network Performance using Traffic Micro-Simulation VISSIM - Budi Yulianto 4. Determination of Congestion Cost at Sentul Intersection, Yogyakarta - Noor Mahmudah 5. Disaster Vulnerable Areas Mapping at Road Infrastructure and Damage Identification Using Pavement Condition Index – Emil Adly 6. Literature Review of Energy Optimization in Road Construction Project - Lendra

ROOM 7 (DAHLIA)

Moderator: Dr.-Ing. Suwartanti N., M.Sc.

Liaison Officer: Hamid Imam S & Husnaini Siti NH

SESSION	TOPIC	PRESENTATION TITLE
PARALLEL SESSION 1 13.30-15.00	Water and Environmental Engineering	<ol style="list-style-type: none"> 1. Portable Fume Hood as An Environmentally Friendly Laboratory Tool to Neutralize Acid Contamination - Choirul Amri 2. Performance of Bio drying Process based on Temperature Profile and Cumulation - Badrus Zaman 3. Design of UPI Incinerator Heat-Electricity Conversion System by Applying Rankine Cycle - Muhamad Maris Al Gifari 4. Biosand Filter for Removal of Organic Pollutant from Laboratory Wastewater - Budhi Primasari 5. The Influence of Physico-Chemical Parameters on Ortho Phosphate and Total Phosphate Concentrations in Maninjau Lake - Puti Sri Komala 6. Study Generation, Composition, Characteristics and Potential Recycling Industrial Food Waste in Padang City - Yommi Dewilda
PARALLEL SESSION 2 15.30-17.00	Water and Environmental Engineering	<ol style="list-style-type: none"> 1. The Method of Handling Tidal Flood Waters in the Banger River Area of Semarang City – Ikhwanudin 2. Smart Communal Water Tank Using Nodemcu Esp8266 Module as A Drought Early Warning System - Adhy Kurniawan 3. Environmental Vulnerability Assessment and Stormwater Management to Enhance Watershed Performance - Rian Mantasa Salve Prastica 4. Hydrograph Discharge of Drainage Networks System of Lambidaro River - Achmad Syarifudin 5. Development of Sustainable Detention Ponds for Flood and Sediment Control in Urban Areas – Suripin 6. Polder System to Handle Tidal Flood in Harbour Area (A Case Study in Tanjungmas Harbour, Semarang, Indonesia) - Slamet Imam Wahyudi 7. Were Dams and Reservoirs 'The Right Project' For Indonesia's Green Watershed Management? Has Fep Been Effective? - Febrina P Y Sumanti

ROOM 8 (LAVENDER)

Moderator: Dr. Sativa

Liaison Officer: Surya Budi G & Ayu Dirgan RP

SESSION	TOPIC	PRESENTATION TITLE
PARALLEL SESSION 1 13.30-15.00	Green Design and Architecture	<ol style="list-style-type: none"> 1. Green Hospital Performance Model at Gatot Subroto Hospital Jakarta - Gaudensia D.K. Fitriyani 2. Evaluation Green City Concept in Depok City using The Asian Green City Index (AGCI) – Hakim 3. Development of Urban Space base on student migrants in Bandung City, Indonesia - Asep Yudi Permana 4. Potential Development of Green Open Space and Forest of Pahandut Village Seberang, City of Palangka Raya - Noor Hamidah 5. Awareness on Environmental Sustainability Design for Public Kindergarten in Malaysia – Fitryn Mohd Shahli 6. The Role of University in The Process of Post-Earthquake Reconstruction Houses. Case Study: Risba - Ardhya Nareswari
PARALLEL SESSION 2 15.30-17.00	Water and Environmental Engineering	<ol style="list-style-type: none"> 1. Green Purchasing Behavior of Government Policy about Paid Plastic Bags (Case Study at Traditional Market in Depok City, West Java Province) - Deni Kurniawan 2. Environmental Leadership, Environmental Personality, and Work Motivation on Soldier's Green Workplace Performance in Batalyon Infanteri Raider 300 Brawijaya, Cianjur, West Java Province - Gaudensia D.K. Fitriyani 3. Leadership, Cultural Values, and Motivation on Employee's Performance about Green Hospital - Agus Joko Susanto 4. The Effect of Leader Behavior and Environmental Personality on Environmental Performance (Ex Post Facto Study of Employees at the Polytechnic of the Indonesian Professional Education and Development Institute (LP3I) Jakarta - Euis Winarti 5. Local Community Public Acceptance in Solar Photovoltaic Power Plant Development: A Case Study in Desa Serut Gunungkidul - Ahmad Faqih Mahalli 6. Potential Benefit of Industrial Symbiosis Using Life Cycle Assessment - Yunita Ismail 7. Kamikatsu Japan's Ecovillage Conceptual Framework for Environmental Management (Case Study: Lake Ciburuy, West Java, Indonesia) - Filson M Sidjabat



2nd INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE
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Dear Author(s),

Thank you for your abstract submission to the 2nd International Conference on Sustainable Infrastructure 2019 (ICSI 2019), to be held in Yogyakarta on October 28th, 2019.

Regarding your abstract submission,

Abstract ID : ICSI-B277
Title of paper : INTEGRATION OF BUILDING INFORMATION MODELLING
IN BUILDING CONSTRUCTION ENGINEERING
EDUCATION IN AN INDONESIAN VOCATIONAL HIGHER
EDUCATION
Author's name(s) : Abdi S. Telaga

we are pleased to inform you that according to our reviewers, your abstract is principally accepted to be presented in the parallel session of the Conference.

The Committee now needs to have confirmation from you that you will be able to present your paper in a 15-minute time slot during the Conference. Please confirm that you will attend the conference by paying the Registration Fee (IDR 500,000), **no later than 22nd October 2019** to:

Beneficiary : Mami Dwi Rahayu
Account Number : 0755650700
Bank : BNI Yogyakarta
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Remarks : ICSI2019_YourName

Upon completing the payment, please notify us as soon as possible by **sending the copy of payment proof** to: icsi@uny.ac.id.

As we plan to submit the final version of the papers to IOP Publishing in the end of November, **the final version of your paper must be submitted before 28th November 2019**. Please note that the final version **MUST** follow the template precisely (including how to cite and how to create the reference list) and address as much of the reviewer comments as possible.

We look forward to seeing you at the conference.

Yours Truly,
ICSI 2019 Organizing Committee
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