



SICEST **2018**

**SRIWIJAYA INTERNATIONAL CONFERENCE ON
ENGINEERING, SCIENCE & TECHNOLOGY
October 15 - 16, 2018**

"Advanced Research and Development Towards Industrial Revolution 4.0"

PROGRAM BOOK

CONTENTS

FRONT PAGE	i
CONTENTS	ii
WELCOME MESSAGE FROM RECTOR OF SRIWIJAYA UNIVERSITY	iv
WELCOME MESSAGE FROM DEAN OF ENGINEERING FACULTY OF SRIWIJAYA UNIVERSITY	v
WELCOME MESSAGE FROM EXECUTIVE CHAIRMAN OF SICEST 2018	vi
ACKNOWLEDGEMENT	vii
GENERAL INFORMATION	1
INFORMATION ABOUT PALEMBANG	2
COMMITTEES	4
ORGANIZING COMMITTEE	5
AUTHOR AFFILIATIONS	6
VENUE INFORMATIONS	8
CONFERENCE ROOM INFORMATION	11
KEYNOTE SPEAKERS	12
PROGRAM AT GLANCE	14
CONFERENCE PROGRAM	15
INSTRUCTION FOR SPEAKERS	16
PARALLEL SESSIONS	
1. Ballroom 1 Subtopic: Civil and Environmental Engineering I, Architecture and Built Environment 1	17
2. Meeting Room 1 Subtopic: Mining and Geological Engineering	20
3. Meeting Room 2 Subtopic: Electrical, Electronics, Computer and Communication Engineeing, Mechanical and Industrial Engineering	22
4. Meeting Room 3 Subtopic: Energy Science and Technology, Material Science and Technology, Chemical Science and Engineering	26
5. Meeting Room 4 Subtopic: Civil and Environmental Engineering 2, Architecture and Built Environment 2	30

PARALLEL SESSIONS

SUBTOPIC: Civil and Environmental Engineering 1

Ballroom 1 - 15 October 2018 (10.30 – 15.45)

No.	Time	Paper ID	Title	Authors	Affiliation
1	10.30 - 10.45	1570488927	Drivability Analysis Based on the Mathematical Model of Soil Flow Resistance	Budijanto Widjaja, Raymond Utama, Dominico Savio Steven Saerang	Parahyangan Catholic University
2	10.45 - 11.00	1570488976	Study on Tropical Organic Soil Stabilization Based on Biogrouting	Jack Widjajakusuma	University of Pelita Harapan
3	11.00 - 11.15	1570489801	Prediction of Carbondioxide Emissions from Crude Palm Oil Industry Case Study: Palm Oil Mill X in Kampar Regency of Riau Province	Aryo Sasmitra, Muhammad Reza	Riau University
4	11.15 - 11.30	1570490272	Mechanical Properties of Polypropylene Plastic Waste Usage and High-Density Polyethylene in Concrete	Jonbi Jonbi, Wita Meutia, Antonia Rosalia Indra Tjahjani, Angga Firdaus, Sahri Romdon	University of Pancasila
5	11.30 - 11.45	1570490287	Identification of Types and Important Value Index of Aquatic Vegetation of Irrigation Channel of Desa Mulyasari, Banyuasin District	Yuanita Windusari, Wiwik Septiani	Sriwijaya University
6	11.45 - 12.00	1570490485	Analysis the Potential of Fire and Explosion at Secondary Reformer as Processing Unit in Ammonia Plant	Resti Lestari, Zuli Rodhiyah, Rizki Handika, Wathri Fitriada, Katharina Oginawati	Universitas Jambi, Intitut Teknologi Bandung
7	13.00 - 13.15	1570490790	Evaluation of Using Hotmix AC-BC Volcanic Ash as Filler	Reza A. Maha	Ministry of Public Work and Public Housing of the Republic Indonesia
8	13.15 - 13.30	1570491119	Behaviour of Rebar Shear Connector in a Push Test for Composite Beam with Cold-Formed Steel Section	Achmad Abraham S. Armo, Anis Saggaff, Mahmood Md. Tahir	Sriwijaya University, Universiti Teknologi Malaysia
9	13.30 - 13.45	1570491328	Effect of Temperature and Heating Time Variation on Characteristics of Fibrous Peat Soils	Yulindasari Sutejo	Sriwijaya University