

ISBN 978-602-6258-17-5

PROCEEDINGS

THE 1ST INTERNATIONAL CONFERENCE OF TECHNOLOGY, 2018

"Advance Structure and Sustainable Environment"

Yogyakarta, 28 November 2018



Publisher:

UST-Press

PROCEEDINGS
THE 1ST INTERNATIONAL CONFERENCE OF
TECHNOLOGY, 2018

“Advance Structure and Sustainable Environment”

Event Organizer Committee

- Committee Builder : Drs. Pardimin, M.Pd., Ph.D
Rector
- Advisor : Dr. Imam Ghozali, M.Sc.
Vice-Rector 1
- Person in Charge : Dra. Siti Rochmiyati, M.Pd.
Head of LP3M
- Chief : Drs. Agus Priyanto, ST., MM.
- Secretary : Dimas Langga Chandra Galuh, S.T., M. Eng.
- Administration Staff : Dara Desmiantoro, S.T.
- Treasurer : Kuswahyudi, S.E., M.M
- Refreshment : Retno Mawarti
- Documentation : Michael Adi P
- General Assistants : Tukijan

Steering Committee:

- Yuyun Yulia, Ph.D, Universitas Sarjanawiyata Tamansiswa, Indonesia
- Dr. Imam Ghozali, M.Sc, Universitas Sarjanawiyata Tamansiswa, Indonesia
- Dr. Iskandar Yasin, S.T., M.T. , Universitas Sarjanawiyata Tamansiswa, Indonesia
- Zainul Faizien Haza, S.T., M.T., Ph. D., Universitas Sarjanawiyata Tamansiswa, Indonesia
- V Reza Bayu Kurniawan, S.T., M.Sc., Universitas Sarjanawiyata Tamansiswa, Indonesia

Reviewers:

- Assoc. Prof. Dr. Ir. Indra Sati Harahap, M. Sc., Universiti Teknologi Petronas, Malaysia

Assoc. Prof. Ts. Dr. Mohd Hisbany Mohd Hashim, Universiti Teknologi Mara Shah Alam Selangor, Malaysia

Prof. Ir. Henricus Priyo Sulisty, M.Sc., Ph.D, Universitas Gadjah Mada, Indonesia

Dr. Ing. Ir. Andreas Triwiyono, Universitas Gadjah Mada, Indonesia

Ir. Suprpto Siswosukarto, Ph.D. , Universitas Gadjah Mada, Indonesia

Dr. Ir. Ahmad Rifa'i, M.T. , Universitas Gadjah Mada, Indonesia

Dr. Ing. Satoto Endar Nayono, M.Sc. , Universitas Negeri Yogyakarta, Indonesia

Ilham Nurhuda, M.T., Ph.D. Universitas Diponegoro, Indonesia

Jati Utomo Dwi Hatmoko, M.Sc., Ph.D. Universitas Diponegoro, Indonesia

Editors:

Ida Bagus Agung, S.T., M.T., Universitas Sarjanawiyata Tamansiswa, Indonesia

Widarto Sutrisno, S.T., M.T., Universitas Sarjanawiyata Tamansiswa, Indonesia

M. Afif Shulhan, S.T., M.Eng., Universitas Sarjanawiyata Tamansiswa, Indonesia

Dewi Sulistyorini, S.T., M.Eng., Universitas Sarjanawiyata Tamansiswa, Indonesia

Lilik Hendro Widaryanto, S.T., M. Eng., Universitas Sarjanawiyata Tamansiswa, Indonesia

Managing Editor:

Ir. Dendy Mochammad Bardan, M.T., Universitas Sarjanawiyata Tamansiswa, Indonesia

Publisher:

UST-Press

Address:

Jl. Kusumanegara No 157, Yogyakarta

The First Issue, November 2018

All rights reserved

No part of this publication may be reproduced or distributed in any form without the prior consent of the publisher.

Preface

Salam dan Bahagia.

Praise be to the presence of Almighty God, because the implementation of the 1st International Conference of Technology UST (IcoT UST) 2018 with the theme "Advance Structure and Sufficient Environment 2018" at Universitas Sarjanawiyata Tamansiswa has been completed and this Proceeding can be published.

The theme was chosen for the reason to give attention to the progress of structural development and environmental development in the world, especially in Indonesia.

This international seminar is one of the places for academics and students to present their research, as well as exchange information and deepen research problems, and develop sustainable cooperation.

Finally, we would like to thank the Rector, Deans, Speakers, Participants and Committees who have made efforts to make this International Conference a success.
Salam.

Yogyakarta, 28 November 2018

Chairman

IcoT 2018 Conference

Drs. Agus Priyanto, ST., MM.

Contents

Cover	i
Event Organizer Committee	ii
Preface	iv
Content	v
Plenary Speakers	
An approach for time-dependent reliability analysis of Jackup structures <i>Assoc. Prof. Dr. Ir. Indra Sati Harahap, M. Sc.</i>	1
GAMA-InaTEK Center of Excellence of Technological Innovation for Disaster Mitigation <i>Prof. Ir. Teuku Faisal Fathani, Ph.D.</i>	14
Technology	
Compressive Strength Of Natural Stone Aggregated Concrete With Curing Variations Of Sea Water, Long Water, And River And Ground Water <i>Hendar Adi Saputra, Dewi Sulistyorini And Dimas Langga Chandra Galuh</i>	14
Evaluation Of Hardware Conditions And Prediction Of Life Remaining With The Pavement Condition Index (Pci) Method And Aashto Method <i>Febry Valentino Kotadjini, Zainul Faizien Haza And Widarto Sutrisno</i>	19
Analysis Of Factors Causing Delay Of Implementation Of The Hanau Stadion Construction Project, Seruyan Central Kalimantan District <i>Herianur, Widarto Sutrisno And Zainul Faizien Haza</i>	22
Comparison Study Of Loading And Style In Prategned PC-T (Prestressed Concrete-T) Beam Using SNI-1725-2016 and RSNI T-02-2005 <i>Hervinta Liberty, Dewi Sulistyorini And M. Afif Shulhan</i>	26
Comparative Study Of Loading And Inside Style On Pc-U (Prestressed Concrete-U) Girder Based RSNI T-02-2005 AND SNI 1725-2016 (A Case Study at the Sembayat Baru II Bridge in Gresik, East Java) <i>Mayar Rohmadi And M. Afif Shulhan</i>	31
Reducing The Risk Of Traffic Accidents Through A Road Safety Audit (Case Study of Jalan Jogja-Solo km 10-12 Sleman Regency) <i>Harefa, S., Yasin, I. And Widaryanto, L.H.</i>	35
Analysis of Jetty Platform due to Earthquake and Storm Wave (Batam Sea, Indonesia)	

<i>Ridwan Abdul Rauf And Agus Priyanto</i>	38
Compressive Strenght Of Concrete Material From Sand Of River And Sea Fine Agregats <i>Paulus Samon, Lilik Hendro W And Ida Bagus Agung</i>	44
Standard Operating Procedure (SOP) Design Preparation Construction Design Preparation Process <i>Pribadi, E.B. , Yasin I. And Widaryanto, L.H</i>	49