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DIPONEGORO UNIVERSITY
SCHOOL OF POSTGRADUATE STUDIES



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Number : 1784/UN7.5.12.2/TU/2020

This certificate is presented to
Priska Ruth Dantjie

In gratitude for the outstanding contribution as
Presenter

5th International Conference on Energy, Environment, Epidemiology and Information System
(5th ICENIS 2020)

**“Emphasizing Environment and Human Security Toward Global
Sustainable Development Goals (SDGS) 2030”**

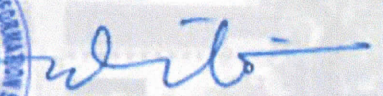
Organized by School of Postgraduate Studies Diponegoro University
Semarang - Indonesia on August 12th - 13th, 2020



Dr. R.B. Sularto, S.H., M.Hum.

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Prof. Dr. Hadiyanto, ST., M.Sc.
Conference Chairman



Source details

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General Energy		
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Safety and Health Management Commitment and Implementation of COVID-19 Prevention at Manufacture Workplace Environment

Dantjie, Priska^a ; Setyaningsih, Yuliani^a; Nurjazuli^b

Save all to author list

^a Magister of Occupational Safety and Health Promotion, Faculty of Public Health, Diponegoro University, Semarang, Indonesia

^b Magister of Environmental Health, Faculty of Public Health, Diponegoro University, Semarang, Indonesia

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Abstract

West Java has been conducting Policy of Large-Scale of Social Restriction (in bahasa Pembatasan Sosial Berskala Besar or PSBB). However several companies in wide range of industries are allowed to run the production with health protocol that need to be fulfilled by company in order to keep the worker's health during this pandemic. One of manufacturing companies with 307 workers in Bekasi Regency is still running the production as part of food production chain. As Indonesian Health Ministry Guidelines for Prevention and Control COVID-19 at Office and Industry Workplace during Policy of PSBB need to be fulfilled, the company implements several actions to protect the worker from COVID-19 at workplace environment. At this moment, safety and health management commitment need to be assessed making sure implementation of the guidelines. In order to make sure COVID-19 prevention, there must be implementation evaluation of Guidelines for Prevention and Control of COVID-19 at Office and Industry Workplace during PSBB Policy. Study shows although the finding of low level safety and health management commitment from worker's perception, majority Guidelines for Prevention COVID-19 at Office and Industry Workplace during PSBB that focus for workplace environment have been facilitated by the management of company. © The Authors, published by EDP Sciences, 2020.

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- ☐ 5 *Surat Edaran Kementerian Ketenagakerjaan Tentang Kesiapsiagaan Dalam Menghadapi Penyebaran COVID-19 di Tempat Kerja*
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**5th International Conference on Energy, Environment,
Epidemiology and Information System (5th ICENIS) 2020**

Organized by

**School of Postgraduate Studies
Universitas Diponegoro**

12-13th August 2020

Preface

The 5th International Conference on Energy, Environment, Epidemiology and Information System 2020 (5th ICENIS 2020) has been organized by the School of Postgraduate Studies, Universitas Diponegoro, Indonesia with the support by World Class University (WCU) Program. The conference was held on August 12th-13th 2020 in Semarang, Indonesia by using Online Conference System. The aim of the conference was to distribute research outcomes on multidisciplinary research area on energy, environment, health and epidemiology and information system.

The 5th ICENIS 2020 have presented 10(ten) international honorable keynote speakers from representative institutions and continents: i) Prof. Elco van Burg, Vrije University Amsterdam, The Netherlands; ii) Prof Peter Gell, Federation University, Australia., iii) Prof. Jerry Miller, Western Carolina University, USA; iv) Prof. Shabbir Gheewalla, Joint Graduate School of Energy and Environment (JGSEE), Kingmookut University, Thailand; v) Assoc. Prof. Zainul Zakaria, Chemical Engineering Department, UTM Malaysia; (vi) Dr Yurdi Yasmi; Regional representative of IRRI for Southeast Asia, Cambodia; (vii) Dr Nuki Agya Utama, Executive Director of Asean Energy research; (viii) Patrick van Schijndel, TU Delft, The Netherlands, (ix) Barokah Sri Utami, Former President Director of PT Phapros, Indonesia, and (x) Dr Liew Kian heng from Strategics Singapore. Pursuing the international network of researchers and industrial applications, this event also has been attended by overseas colleagues to share their best research works as well as local academia and practitioners. Over 320 representatives from various institutions participated in this event, involving more than 340 abstracts submitted. After a rigorous selection process, the Scientific & Editorial Board of 5th ICENIS 2020 made selection of 300 articles to be published in E3S Web of Conferences, an open-access proceedings in environment, energy and earth sciences, managed by EDP Sciences, and indexed on Scopus, Scimago, Conference Proceedings Citation Index-Science (CPCI-S) of Clarivate Analytics's Web of Science, DOAJ (Directory of Open Access Journals). The Proceedings of 5th ICENIS 2020 consists of selected articles from Kazakhstan, Libya, Netherlands, Thailand, Malaysia. The published papers have passed all necessary improvement requirements in accordance to the Web of Conferences standard, reviewer's comments, SI, similarity tests by Turnitin program.

We would like to express our gratitude to the official committee, scientific & editorial boards, organizing partners. A very special thanks to Universitas Diponegoro for financially supporting this conference especially for financing indexing of proceeding in E3S. Finally, we would like to briefly acknowledge all presenters and attendees for their efforts sharing the beautiful ideas and useful research outcomes to inspire further research and collaborations. Although, this time the conference has been successfully conducted via webinar, but the number of participants showed a great increases and we do hope that this also will be the same for the coming 6th ICENIS 2021.

See you again in the next year conference 5th ICENIS 2021

The chairman

Prof. Hadiyanto

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The School Of Postgraduate Studies,
Diponegoro University

5th
**ICENIS
2020**



Online
International
Conference

*Emphasizing Environment And Human
Security Towards Global Sustainable
Development Goals (SDGs) 2030*

Topic

Energy

- Energy management and policy
- Energy planning and Education
- Energy conservation and efficiency
- Energy conversion technology
- Renewable energy
- Nonrenewable energy / Fossil energy
- Culture and Environmental Development in Coastal Community

Environment

- Environmental Conservation
- Environmental Policy, Planning and Education
- Environmental Technology
- Environmental Health and Toxicology
- Environmental Epidemiology
- Pollution Control
- Waste Management
- Green Infrastructure and Resilience

Epidemiology

- Epidemiology related to disease and health event prevention and control
- Managerial epidemiology
- Environmental epidemiology
- Occupational epidemiology
- Nutritional epidemiology
- Behavioral epidemiology

Information system

- Business Intelligence
- Supply Chain Information Systems
- Industrial Information Systems
- Decision Support Systems
- Smart Information Systems
- Health, Safety and Environment Information Systems

Keynote speaker



PROF. PETER CELL
Professor Of Environmental Management, Federation University, Australia



DR. NUKI AGYA UTAMA
Executive Director ASEAN Center For Energy



DR. YURDI YASMI
International Rice Research Institute (IRRI) Regional Representative For Southeast Asia, Philippine



DR. LIEW KIAN HENG
Strategies And Liew Consultants, Singapore



PROF. ELCO VAN BURG
School Of Business And Economics At Vrije Universiteit Amsterdam, Netherlands



DR. IR. PATRICK VAN SCHIJNDEL
Technische Universiteit Eindhoven (TUE), Netherlands



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Chemical Engineering Department, University Teknologi Malaysia (UTM), Malaysia



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Managing Director P1 Phapros Tbk, Indonesia



PROF. DR. JERRY MILLER
Department of Geosciences and Natural Resources, Western Carolina University



PROF. HADIYANTO
School Of Postgraduates Studies Universitas Diponegoro, Indonesia



PROF. DR. SHABIB H. GHEEWALA
Joint Graduate School Of Environment And Energy (JGSEE), King Mongkut University, Thailand

Submission & Registration

<http://www.icenis.org>

Publication

All accepted papers will be published in Scopus Indexed Proceeding E3S Web of Conferences and selected papers will be published in International Journal of Renewable Energy Development (Scopus indexed) and HAYATI Journal of Biosciences (Scopus Q3)



International Journal of
Renewable Energy
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IJRED

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Conference Fees

	Student/Post grad/academic	Other/Non grad/academic
Presenter	US\$ 3000 (online) / US\$ 3500 (print) US\$ 1000 (online) / US\$ 1500 (print) US\$ 500 (online) / US\$ 1000 (print)	US\$ 4000 (online) / US\$ 4500 (print) US\$ 1500 (online) / US\$ 2000 (print) US\$ 1000 (online) / US\$ 1500 (print)
Participant/Oral Presentation/Poster Presentation	US\$ 1000 (online) / US\$ 1500 (print) US\$ 500 (online) / US\$ 1000 (print)	US\$ 1500 (online) / US\$ 2000 (print) US\$ 1000 (online) / US\$ 1500 (print)

*All fees are for local participants only. For international participants, the fees are subject to change.

	Student/Post grad/academic	Other/Non grad/academic
PROF. DR. HADIYANTO	hadiyanto@live.undip.ac.id	hadiyanto@live.undip.ac.id
PROF. DR. SHABIB H. GHEEWALA	shabbir@live.undip.ac.id	shabbir@live.undip.ac.id
PROF. DR. JERRY MILLER	jerry.miller@wcu.edu	jerry.miller@wcu.edu
PROF. DR. NUKI AGYA UTAMA	nuki.agma@live.undip.ac.id	nuki.agma@live.undip.ac.id

Organizing committee:

Prof. Dr. Hadiyanto, M.Sc (Chairman)
Dr. Thomas Trihadi Putranto, S.T., M.Eng. (Co Chairman)
Dr. drg. Dwi Surtiningsih, M.Kes. (Program)
Dr. Budi Waristo, S.Si., M.St. (Publication)

<http://www.icenis.org>

The Organizing Committee

This conference has been organized by School of postgraduate studies, Universitas Diponegoro Semarang. The school currently coordinating 6 graduate multidisciplinary programs i.e Master program of environmental science, master program of energy, master program of epidemiology, master program of information system, doctoral program of environmental sciences, and doctorate program of Information system. The total students is currently 350 students among these 6 programs.

The website: <https://pasca.undip.ac.id>

Website of conference: <https://icenis.undip.ac.id>

The committee of 5th ICENIS 2020

Chairman : Prof. Hadiyanto, MSc

Vice chairman : Dr Thomas Putranto Triadi

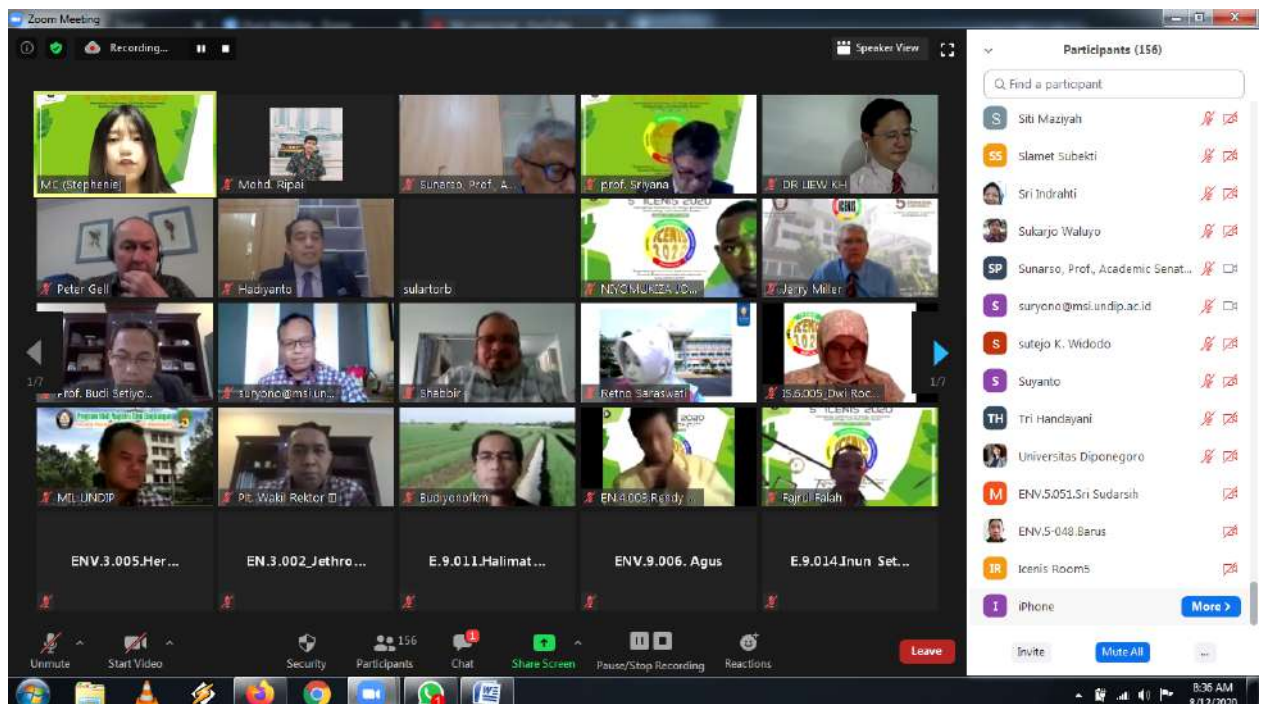
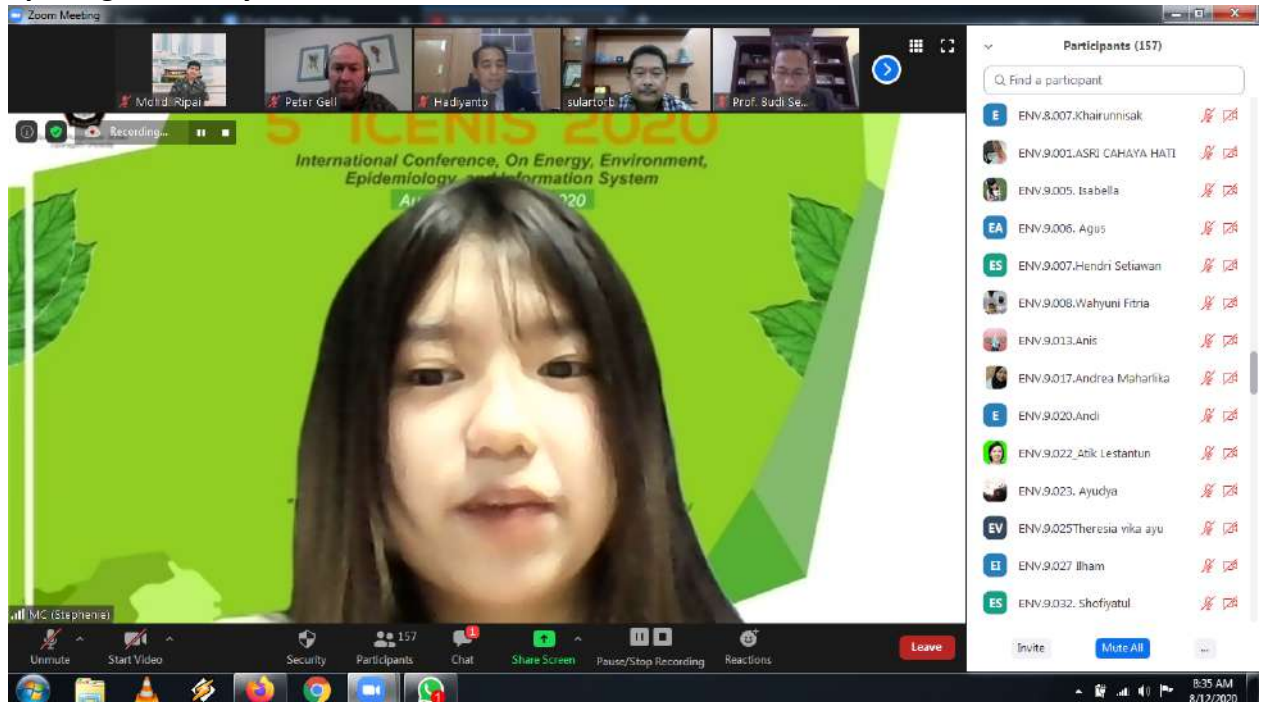
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Some pictures from the conference

Opening Ceremony





2. The Chairman report



3. The remarks form Dean of School of Postgraduate Studies



4. Opening Remarks by The vice Rector, Prof. Budi Setiyono



Participants



Keynote speaker Session I (Chaired by Prof. Sudharto P Hadi)



A profile slide for Prof. Sudharto P. Hadi. At the top left is the logo of Universitas Diponegoro Semarang. To its right, the name 'SUDHARTO P. HADI' is displayed in large white letters on a brown background. Below the name, it says 'Professor in Environmental Management, Diponegoro University'. The slide is divided into sections: 'Education.' with a list of degrees from Diponegoro University, York University, and the University of British Columbia; 'Working Experiences' with a list of roles including Lecturer, Deputy State Ministry for Environment, Rector, and Vice Chairman; 'Research focuses' with a list of 'Environmental Management', 'Private Sector', and 'Social Impact Assessment'; and 'Email: sudhartophadi@yahoo.com'. On the right side of the slide, there is a vertical strip of video feeds showing other participants: Mohdi Ripai, MIC (Stephen...), sularorb, and Prof. Sudharto P. Hadi. At the bottom of the slide, there is a banner for '5th ICENIS 2020'. The Zoom toolbar is visible at the bottom of the slide.

Keynote 1: Prof. Elco

The image shows a Zoom meeting interface. The top part displays a grid of participants: Michel Ripai, MC (Stephen...), sularforb, and Sudharto P. Hadi. The main content area shows a presentation slide for Prof. dr. ir. Elco van Burg, Professor of Organizational Theory at Vrije Universiteit Amsterdam. The slide includes his education, working experiences, and research focuses. The bottom part of the image shows a smaller view of the same presentation slide, which features a landscape background and the text: FAITH AND DEVELOPMENT, THE ROLE OF LOCAL RELIGIOUS ORGANIZATIONS IN COMMUNITY CHANGE IN PAPUA, PROF. DR. IR. ELCO VAN BURG, VRIJE UNIVERSITEIT AMSTERDAM, and VU AMSTERDAM LOOKING FURTHER.

Zoom Meeting You are viewing Kenis 2020's screen View Options

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VU VRIJE UNIVERSITEIT AMSTERDAM **Prof. dr. ir. Elco van Burg**

Professor of Organizational Theory, School of Business and Economics, Vrije Universiteit Amsterdam

Education:
BSc- Industrial Engineering and Management Science, TU Eindhoven (2004)
BE- Theology, CGO (2007)
MSc- Industrial Engineering and Management Science, TU Eindhoven (2006)
MA- Theology, Utrecht University (2010)
PhD- Management, TU Eindhoven (2010)

Working Experiences
• Assistant professor, TU Eindhoven (2009-2011)
• Assistant professor, School of Business and Economics, VU Amsterdam (2011-2013)
• Associate professor, School of Business and Economics, VU Amsterdam (2013-2020)
• Organizational consultant and trainer, Lentera Papua, Papua, Indonesia (2014-2020)
• Financial consultant, Cenderawasih Air, Papua, Indonesia (2017-2020)

Research focuses
• Organizational theory
• Social network theory
• Qualitative research
• Entrepreneurship

5th ICENIS 2020

Zoom Meeting You are viewing Elco van Burg's screen View Options

Recording... 170 Participants

FAITH AND DEVELOPMENT
THE ROLE OF LOCAL RELIGIOUS ORGANIZATIONS IN COMMUNITY CHANGE IN PAPUA
PROF. DR. IR. ELCO VAN BURG
VRIJE UNIVERSITEIT AMSTERDAM

VU VRIJE UNIVERSITEIT AMSTERDAM **LOOKING FURTHER**

Elco van Burg

2. Keynote 2 (Prof. Jerry Miller)

Zoom Meeting

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Mohd Ripai sularorb2 Sudharto P. Hadi Jerry Miller Sunarso, Prof... ENV.3.005.Her...

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 **Jerry R. Miller**
Professor of Environmental Science



Education.
Bsc- Geology, Southern Illinois University (1982)
Msc- Geology, University of New Mexico (1985)
PhD- Geology, Southern Illinois University (1999)

Working Experiences
• Illinois State Geological Survey (1984-1986)
• Desert Research Institute, Reno, NV (1990-1996)
• Indiana University-Purdue University, Indianapolis (1996-1999)
• Western Carolina University (1999-Present)

Email:
jmillerr@wcu.edu

Research focuses
• Water & Sediment Quality
• Hydrology
• Fluvial (river) Geomorphology
• River Restoration

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9:01 AM 8/12/2020

Zoom Meeting

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Mohd Ripai sularorb2 Sudharto P. Hadi Jerry Miller Sunarso, Prof... ENV.3.005.Her... prof. Sriyana

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 **Jerry R. Miller**
Professor of Environmental Science



Education.
Bsc- Geology, Southern Illinois University (1982)
Msc- Geology, University of New Mexico (1985)
PhD- Geology, Southern Illinois University (1999)

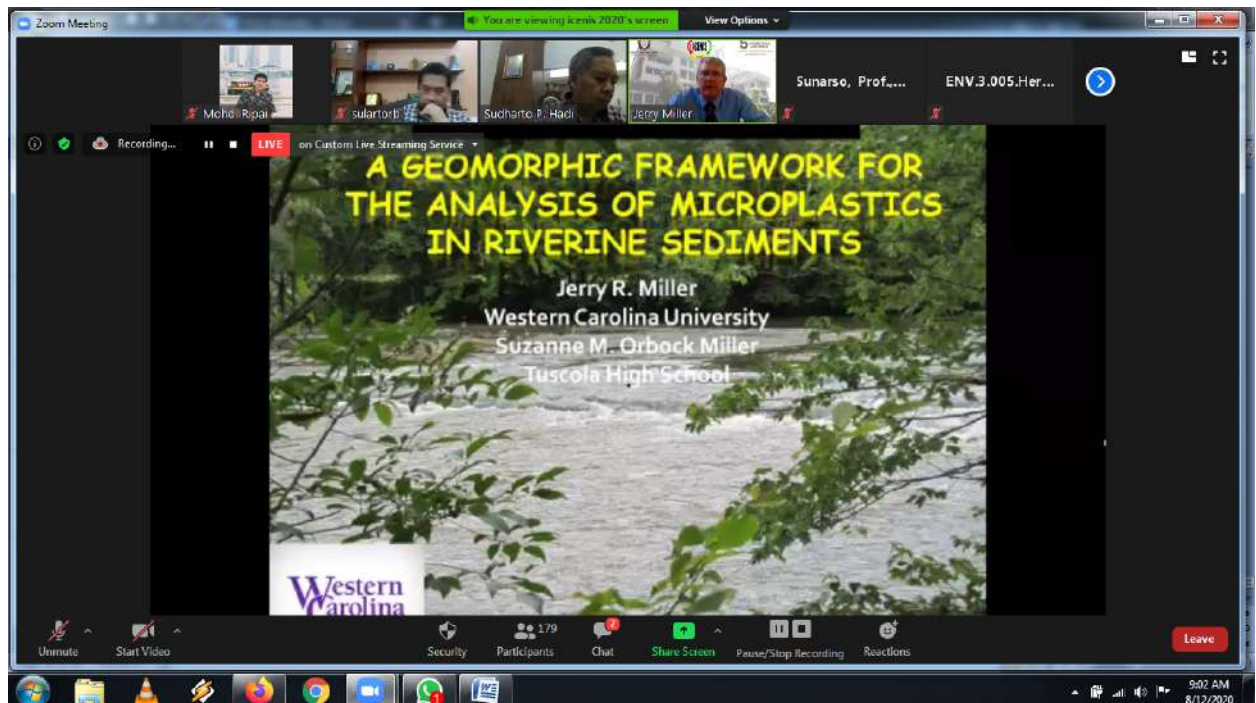
Working Experiences
• Illinois State Geological Survey (1984-1986)
• Desert Research Institute, Reno, NV (1990-1996)
• Indiana University-Purdue University, Indianapolis (1996-1999)
• Western Carolina University (1999-Present)

Email:
jmillerr@wcu.edu

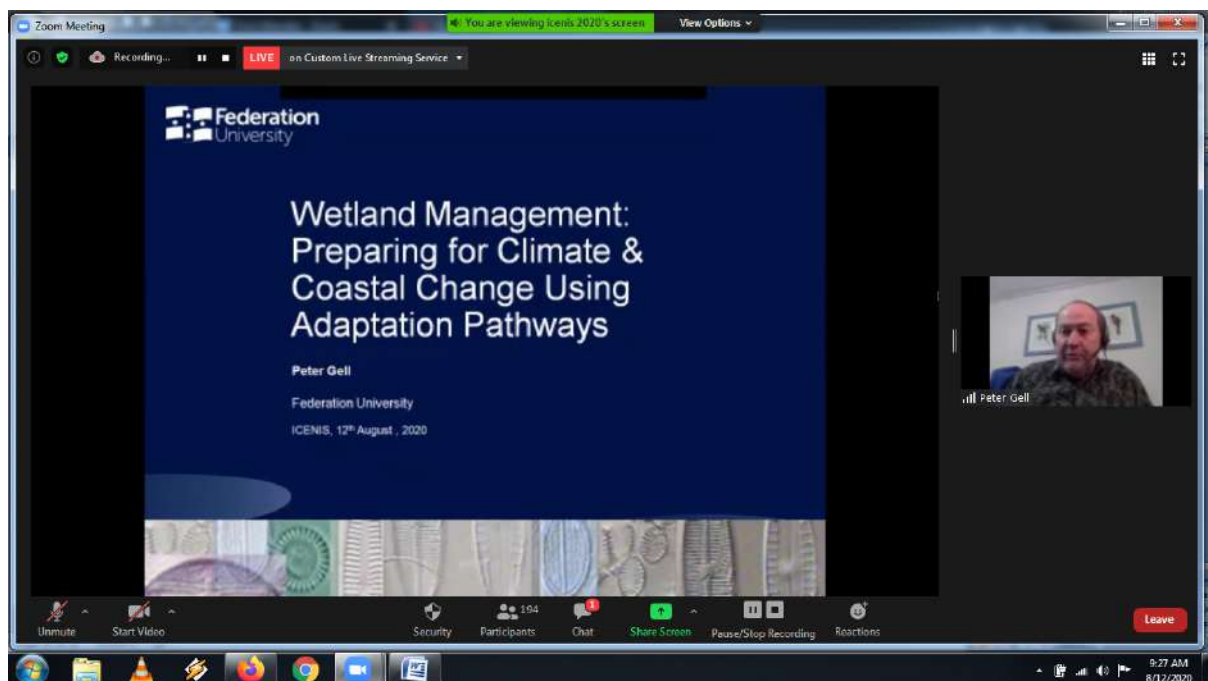
Research focuses
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• Fluvial (river) Geomorphology
• River Restoration

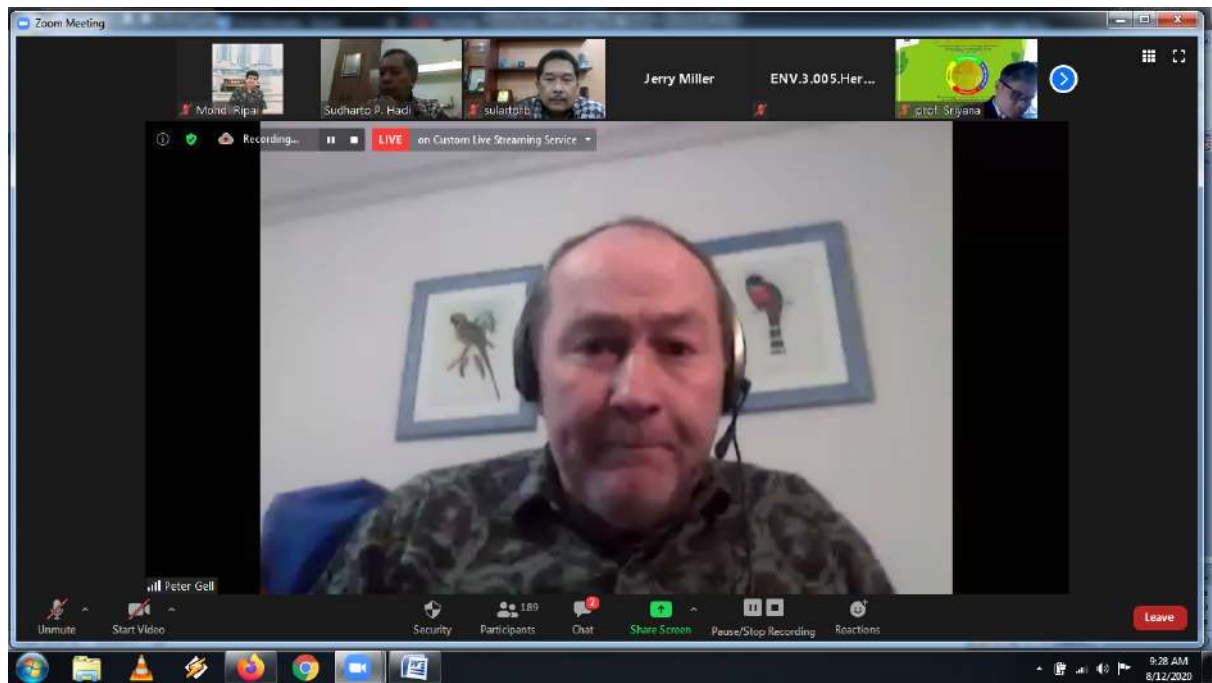
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3. Keynote 3 (Prof. Peter Gell)





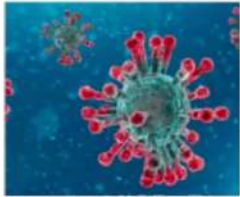
Keynote 5 (Dr Yurdi Yasmi)

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COVID-19 worsens the SDG2 challenge – why?

- Economic recession and negative growth
- Restrictions of people's movement impacts agriculture activities
- Difficulties in getting agriculture inputs e.g. seeds, fertilizer, equipment
- Difficulties in bringing products to markets or consumers



IRRI

Dr. Yurdi Yasmir

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10:06 AM 8/12/2020

Keynote 6(Dr Liew Kian Heng)

Zoom Meeting

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Peter Gell | ENV.5-031 Mah... | Dr. Sriyana

DR LIEW KH

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Example for Parallel Session
ROOM 1



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Participants (35)

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EP.6-007 Lintang Dian Saraswati  

EP.6-008 Rati Indraswari  

G Gltb55e-msa  

ID Irma Damayanti  

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R IS.6-007 Wingghayarie Patra Ga...  

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RP Ratna Purwaningsih  

S sularorb  

Invite Unmute Mute Mixer Hand

EN.1002.Suyito

Evaluating the impact of technological adoption policy for rural coastal communities

Yudithia1, Edison2, Dwi Kristanti3, Tri Samnuzulnari4, Suyito5, and Wayu Eko Yudiantmaja2*

1. Secretary Office of the Regional House of Representatives of Kepulauan Riau, Indonesia
2. Department of Public Administration, Universitas Maritim Raja Ali Haji, Indonesia
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1:03 PM 8/12/2020

ROOM 2

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METHODOLOGY DESIGN

$$Eh = \sum_{i=1}^n LHV_i \cdot mfi \cdot q \quad (1)$$

Where Eh is heat energy potential from all type of waste, LHV_i (Low Heating Value) is calorific value of waste type i (kcal/kg) while mfi is fraction of waste type i (without unit). The value q indicates total weight of waste.

The material recovery of plastic and paper according to scenario 2 and 3 will reduce the heat energy potential (Eh). The amount of calorie deduction is equal to the fraction of recycling. The heat energy of recycled fraction could be calculated using equation (2):

$$Ehr = \sum_{i=1}^n LHV_i \cdot mfi \cdot rr \cdot q \quad (2)$$

Where Ehr is heat energy from recycle waste taken while rr is ratio of recycling. Value of rr for scenario two is 0.25 (25%) while scenario 3 is 0.5 (50%) for PET, HDPE, and paper. LHV_i is heat energy from a wet waste that influenced by its moisture. LHV could be determined from HHV (High Heat Value) with the following equation:

$$LHV = HHV \cdot (1-w) - 584.85w \quad (3)$$

Where HHV is heat energy of a dry waste in kcal/kg, while w is water content and 584.85 is a heat constant in vaporizing water at temperature of 25°C [40].

Heat energy of non-recycled waste (Ehn) is accounted by deducting overall heat energy of waste (Eh) by heat energy of recycling waste (Ehr) through the equation below:

$$Ehn = Eh - Ehr \quad (4)$$

Scenario 1 Without recycling

Scenario 2 Low Recycling rate

Scenario 3 High recycling rate

Calorific Value Analysis

Non-recycle waste potential for RDF

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Participants 12 Chat Share Screen Record Reactions

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Recording

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graph TD
    A[Literature Review] --> B[Municipal Waste Generation]
    B --> C[Classification & Composition of Waste]
    C --> D[Scenario 1: Without recycling]
    C --> E[Scenario 2: Low Recycling rate]
    C --> F[Scenario 3: High recycling rate]
    D --> G[Calorific Value Analysis]
    E --> G
    F --> G
    G --> H[Non-recycle waste potential for RDF]
        
```

METHODOLOGY DESIGN

$$Eh = \sum_{j=1}^n LHV_j \cdot m_j \cdot q \quad (1)$$

Where Eh is heat energy potential from all type of waste, LHV_j (Low Heating Value) is calorific value of waste type j (kcal/kg) while m_j is fraction of waste type j (without unit). The value q indicates total weight of waste.

The material recovery of plastic and paper according to scenario 2 and 3 will reduce the heat energy potential (Eh). The amount of calorie deduction is equal to the fraction of recycling. The heat energy of recycled fraction could be calculated using equation (2):

$$Ehr = \sum_{j=1}^n LHV_j \cdot m_j \cdot rr_j \cdot q \quad (2)$$

Where Ehr is heat energy from recycle waste taken while rr_j is ratio of recycling. Value of rr for scenario two is 0.25 (25%) while scenario 3 is 0.5 (50%) for PET, HDPE, and paper. LHV_j is heat energy from a wet waste that influenced by its moisture. LHV_j could be determined from HHV_j (High Heat Value) with the following equation:

$$LHV_j = HHV_j \cdot (1-w) - 584.85w \quad (3)$$

Where HHV_j is heat energy of a dry waste in kcal/kg, while w is water content and 584.85 is a heat constant in vaporizing water at temperature of 25°C [40].

Heat energy of non-recycled waste ($Elin$) is accounted by deducting overall heat energy of waste (Eh) by heat energy of recycling waste (Ehr) through the equation below:

$$Elin = Eh - Ehr \quad (4)$$

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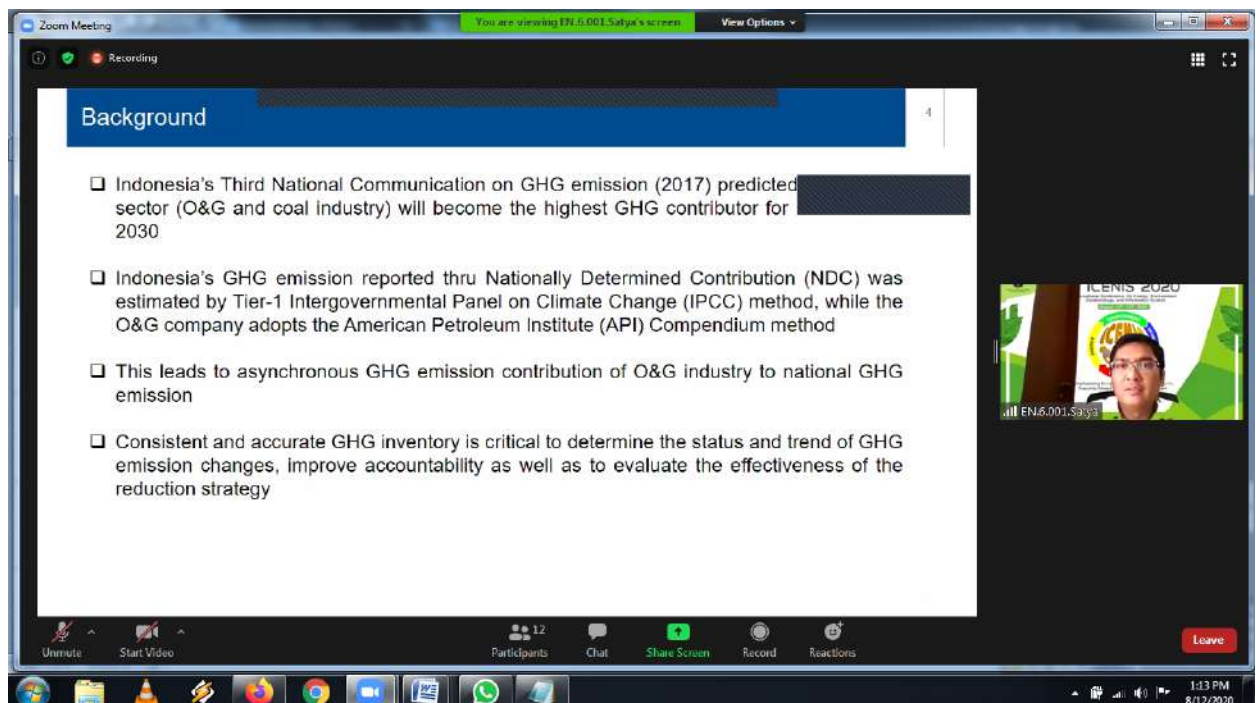
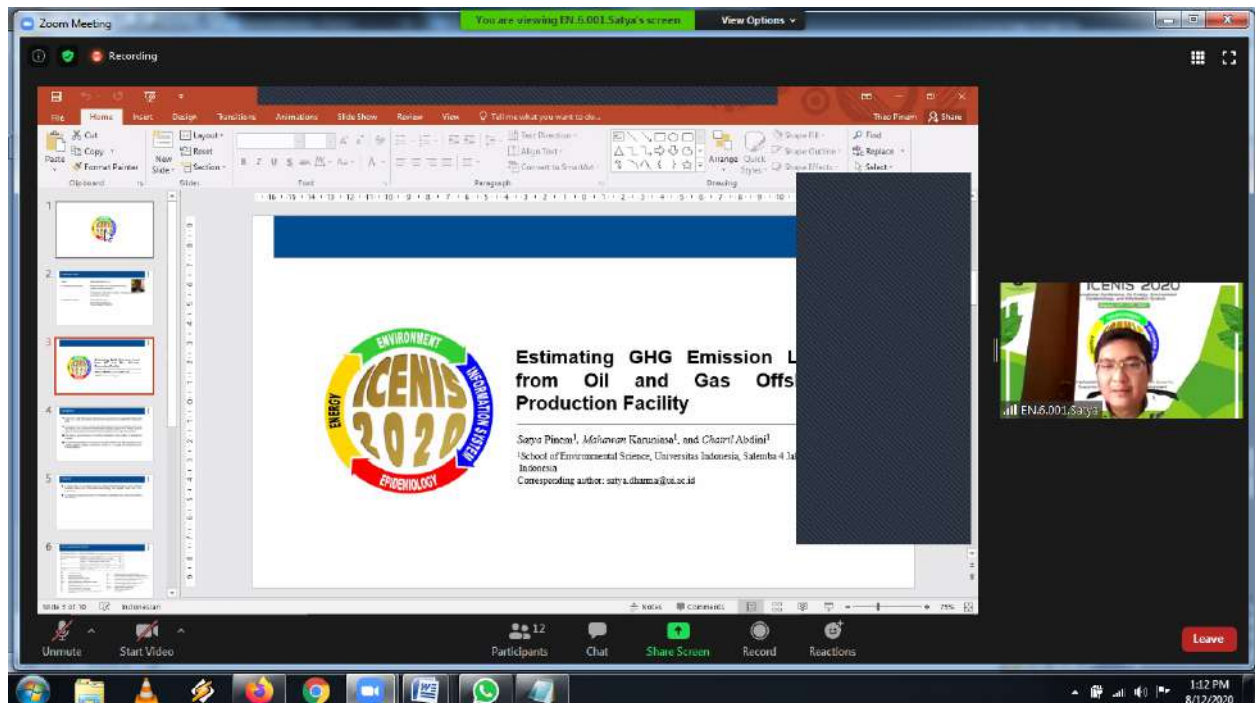
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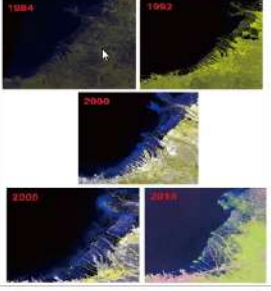
ROOM 4

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Recording Gallery View

DATA AND STUDY LOCATION Cont'd....

- Data used in this research was obtained from Landsat satellite imagery recorded on 23 February 1984, 28 June 1992, 23 April 2000, 24 April 2008, and a drone captured on 5 June 2018.
- The overlay from Landsat images and RGB overhead images were corrected through radiometric and geometric check
- They were then integrated with the administrative limit from Morosari district in Demak regency and the border of Semarang City (Tanjung Mas).



ENV_1-003, (Niyomukiza & Snyana)

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Recording Gallery View

Analytical Technique

The processing method of the Landsat images consists of several steps as listed below;

- The initial stage of data development is conducted through correlation with the standard procedure issued by the data supplier.
- Early development began by synchronizing the spatial resolution between Landsat-4 MSS and Landsat series TM.ETM+.
- Images were analyzed and then geometrical and radiometric corrections were made.
- The development of RGB (Red Green Blue) composite for each imaging acquisition.
- Digitizing the fourth RGB image as an analogy by digitalizing it on screen.
- Analysis and calculation are done through the process of digitizing of each year's image so that it is possible to find out the changes both from accretion and abrasion.

ENV_1-003, (Niyomukiza & Snyana)

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RESULTS AND DISCUSSION

According to the coastline length calculation resulted from digitation, the border area length between Semarang – Demak (Tanjung Mas, Terboyo Wetan, Terboyo Kulon, and Trimulyo village) and Demak Regency (villages along the coast in Demak Regency) are as follows;

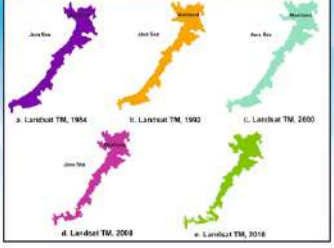


Table 1. Coastline Length and Rate of coastline changes

Year	Coastline length (Km)	Rate of coastline changes (Km/year)
1984	48.2	-
1992	57.9	1.2
2000	63.7	0.7
2008	73.5	1.2
2018	92.6	2.1

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ENV.1-009.Ahm... Haryono Huboyo ENV.1.011 Raffi b. Cahyo IS.1-007 Chashif Syadzall

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ICENIS 2020

The Influence of Land Use To River Water Quality Level by Using The Water Quality Index Of National Sanitation Foundation (WQI-NSF) Method (Case Study: Klampok River, Semarang District)

Winardi D Nugraha, Mohammad Rafif D Cahyo, and Nurandani Hardyanti
Environmental Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, 50275, Indonesia

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Introduction

The increasing rate of population growth has resulted in various environmental degradations.

Land use change is a form of environmental degradation which is defined as a form of human intervention on land in order to meet the needs of life both material and spiritual (Arsyad 2006).

Activities on the Klampok River have the potential to cause the river to experience a decrease in water quality due to agricultural, industrial, and residential activities as well as the influence of land use changes.

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Recording

Methodology

Sampling Location

This study was conducted in the Jragung watershed, in the Klampok Sub-watershed, Semarang Regency, Central Java.

Water sampling is carried out at 4 sampling points that have been determined based on the condition of the distribution of sub-watersheds, land use, topography, river physical condition, and administrative boundaries.

Water sampling at the sampling location for each segment was carried out on rainy season on March 4th, 2020.

No	Sampling Point	Coordinates
1.	Sampling Point 1 Located in Jatijajar Village, Bergas Sub-district	7° 12' 26" S and 110° 25' 26" E
2.	Sampling Point 2 Located in Kedung Mbelon, the border between Jatijajar-Derekan, Bergas Sub-district	7° 11' 59.41" S and 110° 25' 58.82" E
3.	Sampling Point 3 Located in Ngempun Village, Bergas Sub-district	7° 11' 33.72" S and 110° 26' 1.50" E
4.	Sampling Point 4 Located in Pringapus Village, Pringapus Sub-district	7° 11' 37.99" S and 110° 27' 56.00" E

Participants (18)

Find a participant

- Mohd. Ripai (Documentati... (Me)
- Icenis Room5 (Host)
- ENV.1.011 Raffi D Cahyo
- ENV.1.013, Novie Susanto
- ENV.1-014
- ENV.06-002 Tozan Ajie
- ENV.1-009 Ahmad Cahyadi
- ENV.1-010 Muhammad Iham F...
- ENV.1-013 (Yumima Sinyo)
- ENV.4-012 T. Listyani R.A.
- ENV.6-001 Nurakhami
- ENV.7.002 Nani Hariastuti
- ENV.7.003 Sri Djuwani Ekowati
- Haryono Huboyo

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Recording

Methodology

Sampling Location

This study was conducted in the Jragung watershed, in the Klampok Sub-watershed, Semarang Regency, Central Java.

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4.	Sampling Point 4 Located in Pringapus Village, Pringapus Sub-district	7° 11' 37.99" S and 110° 27' 56.00" E

Participants (18)

Find a participant

- ENV.1.011 Raffi D Cahyo
- Mohd. Ripai
- Haryono Huboyo
- Icenis Room5

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Speaker View

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RESULT AND DISCUSSION

Expectation



Reality



The growth of the KTM Telang downstream area is expected to provide a positive breakthrough for the economic growth of the surrounding area or the region region behind it (bankland), through the accumulation of the sector or subsector base as a driving force for the regional economy and economic linkages between regions

Problem Identification

- Infrastructure Development at the KTM Center has no significant impact on the economic growth of the bankland region
- There is no influence of activities in the bankland on the development and economic growth at the KTM center (the amount of leakage and there is no product added value)
- Rivers and canals that used to be a means of transportation, now become a bank/canoe of high costs.

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Stephenie, Budi Warsito and Alan Prahutama

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Life Cycle Thinking for Sustainable Consumption and Production towards a Circular Economy

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Abstract

The current model of a linear economy with end-of-pipe waste treatment is not sustainable. Cleaner production helps reduce resource use and emissions, but is still not an optimal solution without considering a life cycle perspective. Life cycle-based tools such as life cycle assessment and life cycle costing are useful for identifying optimal environmental and economic options for product systems. SDG 12 dealing with responsible consumption and production is key for sustainability. Developing of a

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circular economy requires life cycle thinking and life cycle-based tools for
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assessment. All these issues are discussed, along with illustrative
examples.



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Faith and development: The role of local religious organization in community change in Papua

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Abstract

Religious organizations have an important role in development aid. For a long time, this role was not acknowledged by the main players in the development arena, but this has changed over the last few decades. Yet, this role is not without tensions, as in particular western donors hold secular perspectives on development and find it hard to deal with organizations that want to provide help as well as spread their religion. In this study, I review the literature on faith-based organizations (FBOs) and present a case-study of how churches in rural areas of Indonesia's Papua province fulfill key roles in local development. To come to a fruitful cooperation between large development organizations and such indigenous churches, an important condition is that the role of religion in daily life of these Papuans needs to be acknowledged.

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A Geomorphic Framework for the Analysis of Microplastics in Riverine Sediments

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Abstract

The wide-spread use and persistence of plastics in the environment have placed them on the list of significant emerging pollutants. In contrast to marine environments, the analysis of plastic debris, including microplastics (particles <5 mm in maximum diameter), in freshwater systems is limited, and even fewer studies have examined microplastics in riverine sediments. Nonetheless, it has become clear that microplastics are now a ubiquitous component of riverine ecosystems and their distribution is dependent on anthropogenic inputs and the physical and chemical processes that control their transport, transformation, and deposition along the drainage network. In many ways, the transport and fate of microplastics will parallel that of other particulate matter that has

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been extensively studied for at least the last 50 years. Here, we briefly explore the application of a geomorphic approach to the assessment of sediment-contaminated rivers to the microplastic problem, and argue that future studies can significantly benefit by incorporating the principles of this approach into their analyses.

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Wetland management: preparing for climate and coastal change using adaptation pathways

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Abstract

Freshwater ecosystems are among the most threatened in the world. The list of threatened species in freshwater ecosystems is greater than that in terrestrial or marine systems and freshwater vertebrates are particularly at risk. Freshwater wetlands have evolved in coastal zones protected from tidal influence by barrier dune systems. Similarly, estuaries have supported zones of low salinity diluted by flows from land, but water resource development has limited these flows and driven ecological change in estuarine systems. These historical uses of river flows, and the impacts of catchment development on water quality and yields, have combined to threaten coastal wetland ecosystems. They are now under increasing threat through climate change driven alterations to

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hydroclimatic conditions, as well as rising sea levels which risk inundation of low lying coastal regions, including wetlands. Coastal freshwater systems offer considerable ecosystem services to human systems and host significant biodiversity assets. These have been subjected to increased risk through catchment and coastal development, but are now acutely threatened through changed river flows and elevated sea levels that result from climate change. Managing these systems requires an adaptation pathways approach that accommodates human needs, and society's obligations to global biodiversity.

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"ETHICAL APPROVAL"**

No : 78/EA/KEPK-FKM/2020

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : PRISKA RUTH DANTJIE
Principle Investigator

Nama Institusi : Universitas Diponegoro
Name of the Institution

Anggota Peneliti : 1. Dr.Yuliani Setyaningsih, SKM, M.Kes
Member 2. Dr. Nurjazuli SKM, M.Kes

Dengan judul :
Title

"Pengaruh Iklim Keselamatan Kerja terhadap Niat Pelaporan Insiden pada Pekerja Manufaktur Menggunakan Teori Perilaku Terencana"

" The Influence of Safety Climate Toward Incident Reporting Intention of Manufacturing Workers Using The Theory of Planned Behavior"

Dinyatakan layak etik sesuai 7 (tujuh) Standart WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment And Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 28 May 2020 sampai dengan tanggal 28 May 2021

This declaration of ethics applies during the period May, 28th 2020 until May, 28th 2021

Semarang, 28 May 2020
Professor and Chairperson,



dr. M. Sakundarno Adi, M. Sc, Ph.D.
NIP. 196401101990011001