

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 ICEN IS 2020) has been organized by the School of Postgradute Studies, Universitas Diponegoro, Indonesia with the support by World Class University (WCU) Program. The conference was held on Auguat 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, Vrij University Amsterdam, The Netherlands; ii) Prof Peter Gell, Federation University, Australia., iii) Prof. Jerry Miller, Western Caroline University, USA; iv) Prof. Shabbir Gheewalla, Joint Graduate School of Energy and Environment (JGSEE), Kingmokut 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

Emphasizing Environment And Human Security Towards Clobal Sustainable Development Goals (SDCs) 2030

Online International conference

Topic

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Energy

- C: 37 Energy management and pone, Energy planning and Education Energy conservation and efficiency Energy conversion technology Renewable energy Nonrenewable energy Nonrenewable energy / Fossil energy Nonrenewable energy / Fossil energy Culture and Environmental Development in Coastal Community
- Environment ntion
 - Environmental Policy Planning and Education
 - Education Environmental Technology Environmental Health and Toxicology Environmental Epidemiology Pollution Control Waste Management Green Infrastructure and Resilience

Keynote Speaker



or Of

Protessor Or Environmental Management, Federation University, Australia



Executive Director ASEAN Center For Energy



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



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Strategics And Liew Consultants, Singapore

PROF. ELCO





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Department of Geosciences and Natural Resources Western Carolina University



DRA. BAROKAH SRI UTAMI. APT., MM Pt Phapros Tbk. Indonesia



PROF. DR. SHABBIR H. GHEEWALA oint Gradua chool Of Environment And Energy (JGSEE), King Mokut University, Thailand

Organizing committee:

PROF. HADIYANTO

Postgraduates Studies Universitas

School Of

Diponegoro, Indonesia

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Epidemiology

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

Information System

- Bussiness Intelligence Supply Chain Information Systems Industrial Information Systems Decission Support Systems Smart Information Systems
 - Health, Safety and Environment Information Syste

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 IJRED Development



Contact

+62 24 8449 608 (Office) +62 813 2647 7628 (Prof. Hadiyanto) +62 812 2811 8006 (Silvia Nur Safa'ah, S.E.) +62 813 9085 6514 (Eko Pujiyanto) Email : icenis (at) live.undip.ac.id

Conference Fees

	Before June 17*, 2020	AfterJune 17*, 2020
Presenter Indonesian Presenter International Presenter Student presenter	IDR agoneccijos 2.000.000/ paper USD ago 1/5/ paper IDR 2.000.000/ paper	IDR styptorojec 2.350.000/paper USD 900 225/paper IDR styptorojec 2.000.000/pape
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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.

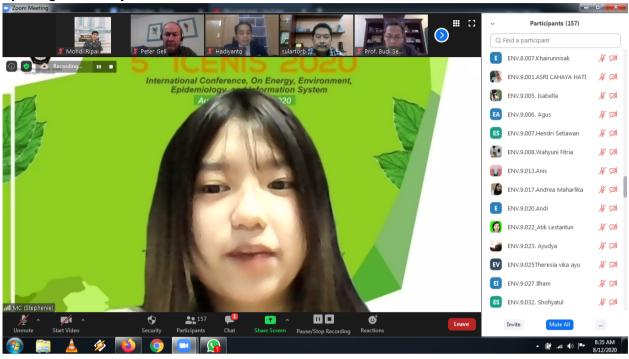
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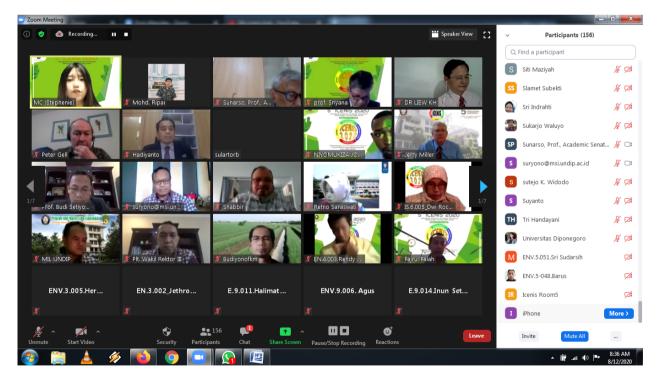
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Some pictures from the conference

Opening Ceremony







2. The Chairman report



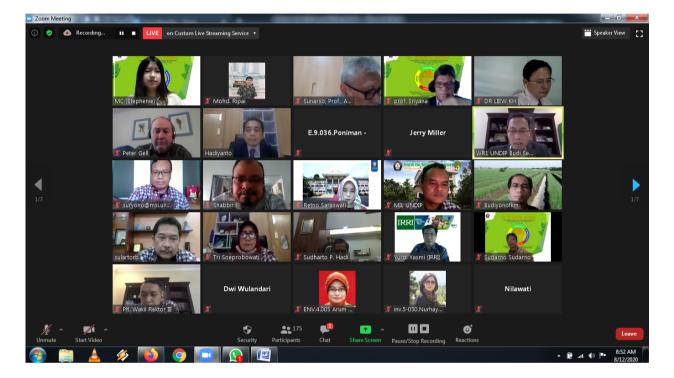


3. The remarks form Dean of School of Postgraduate Studies

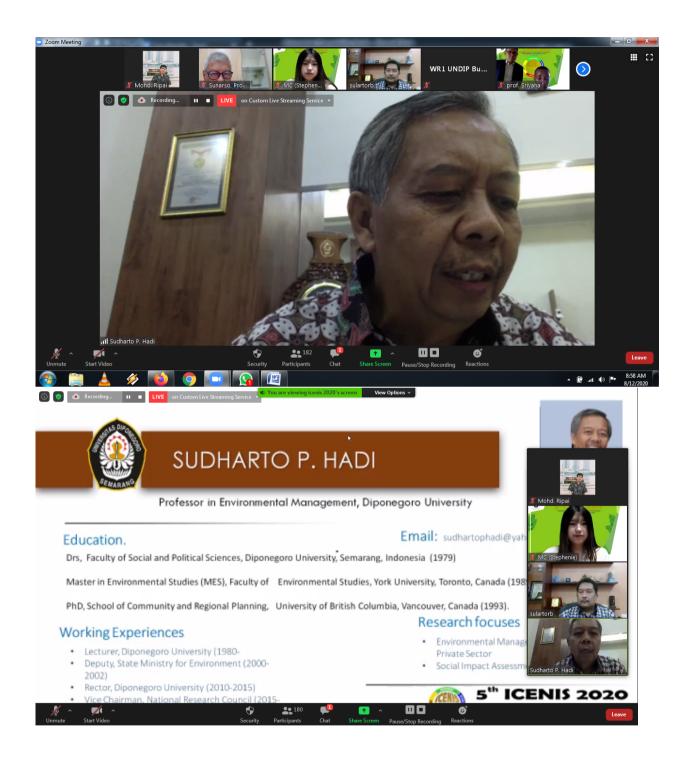
4. Opening Remarks by The vice Rector, Prof. Budi Setiyono



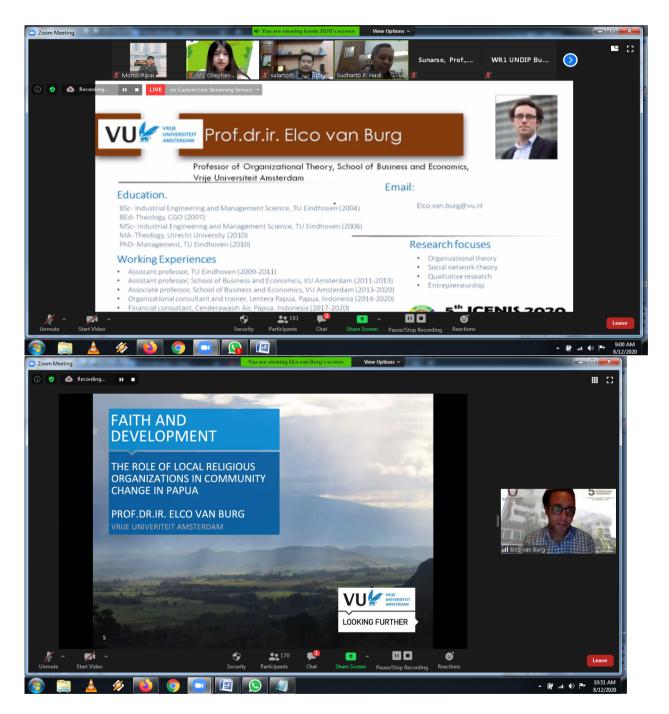
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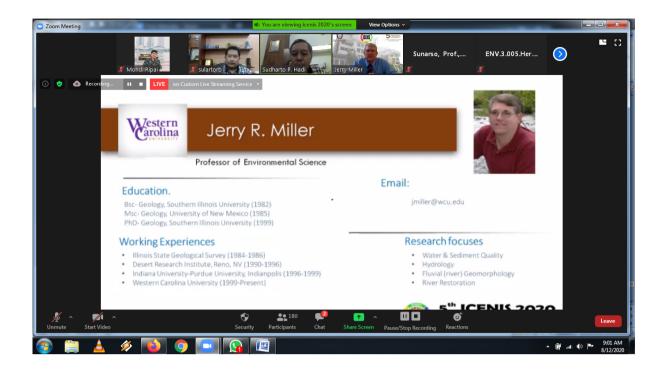
Keynote speaker Session I (Chaired by Prof. Sudharto P Hadi)



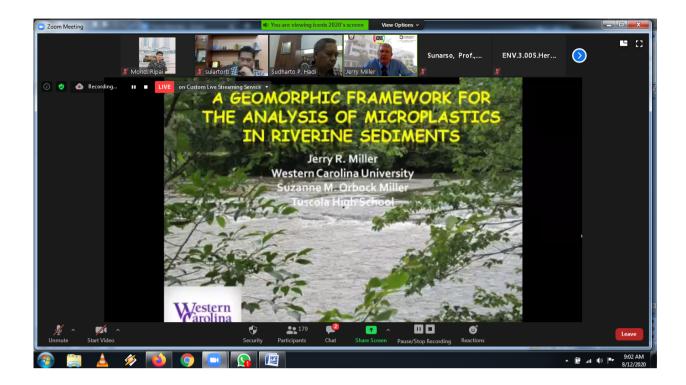
Keynote 1: Prof. Elco



2. Keynote 2 (Prof. Jerry Miller)

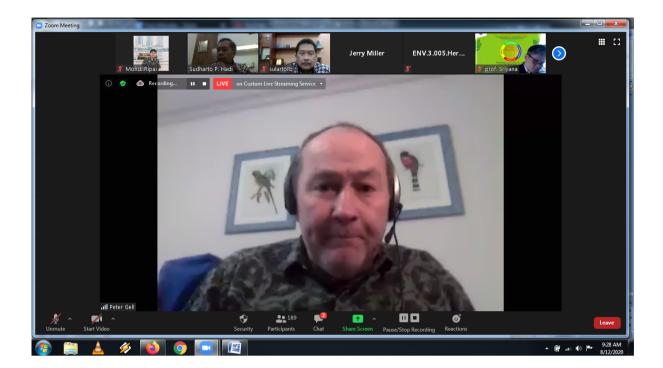




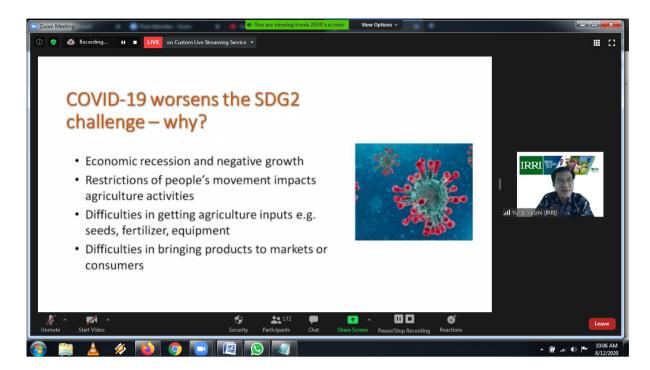


3. Keynote 3 (Prof. Peter Gell)





Keynote 5 (Dr Yurdi Yasmi)



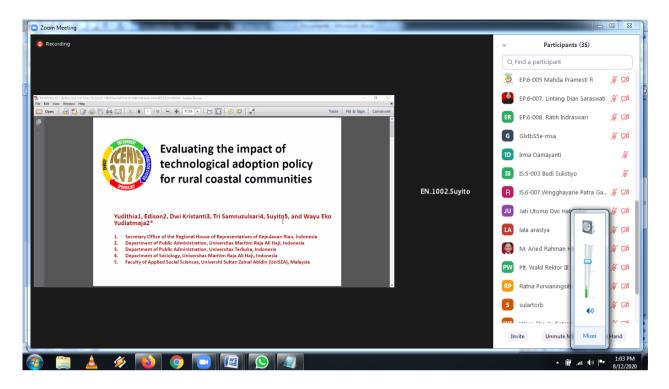
Keynote 6(Dr Liew Kian Heng)



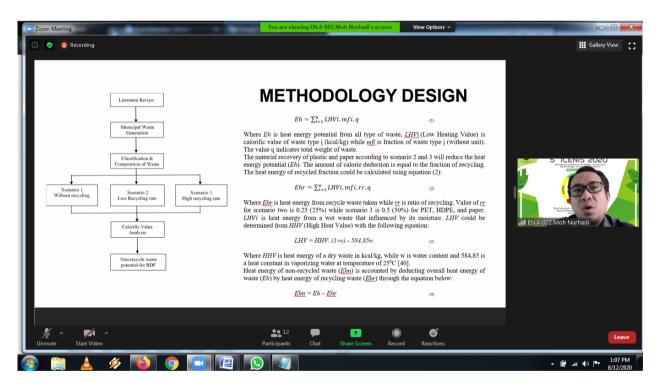
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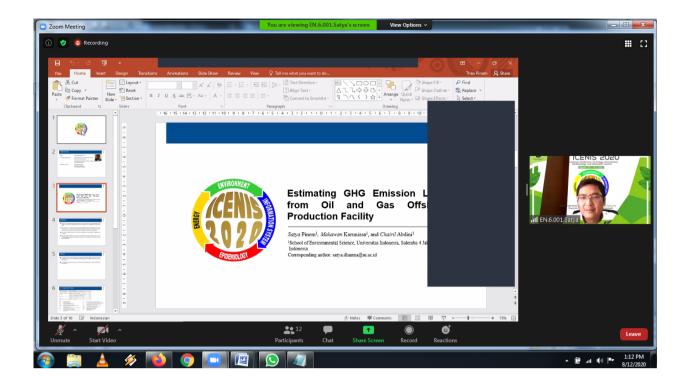
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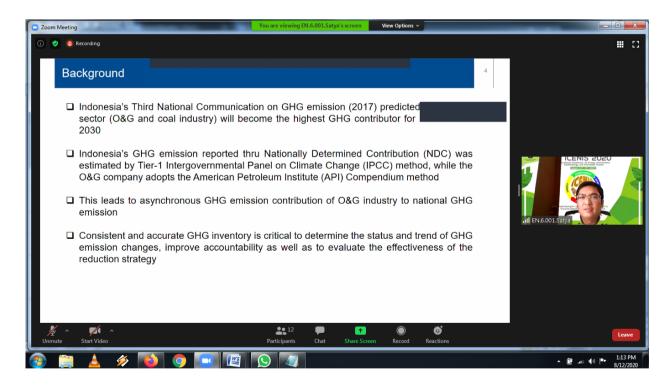


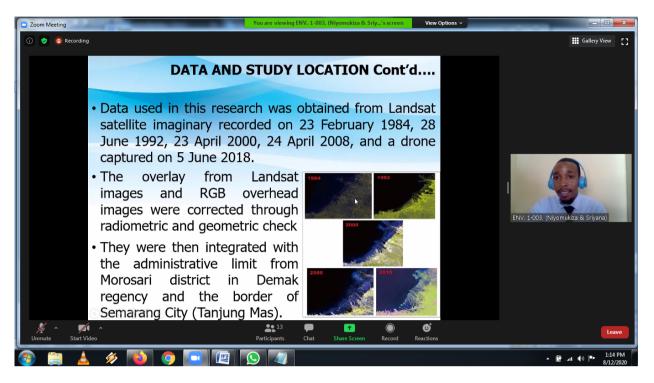
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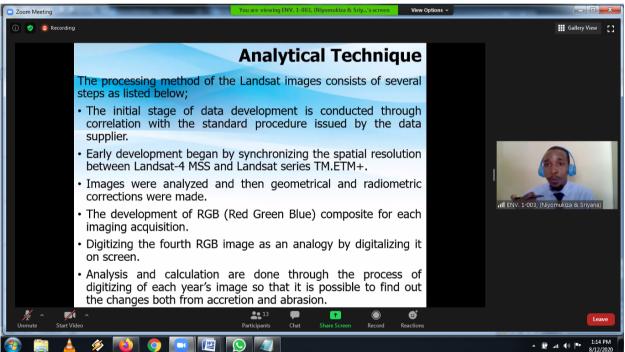
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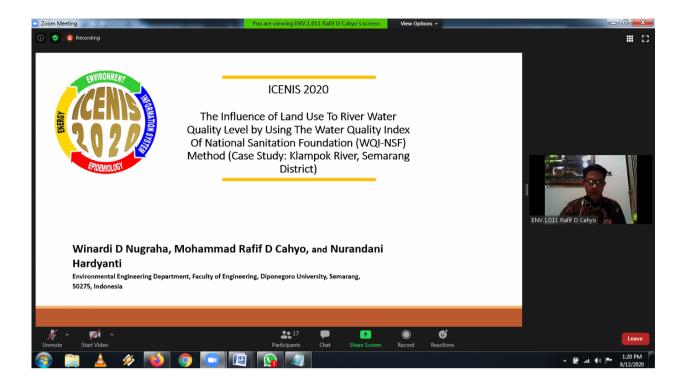


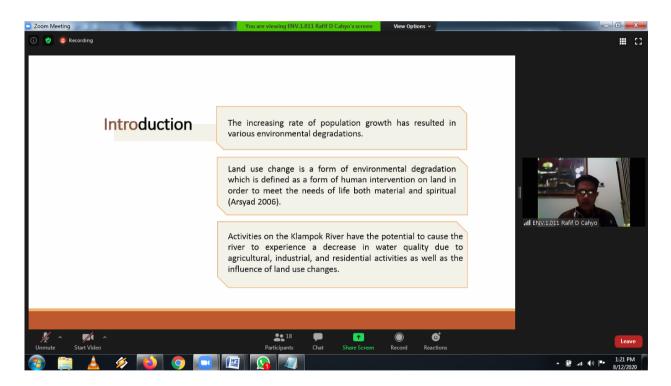


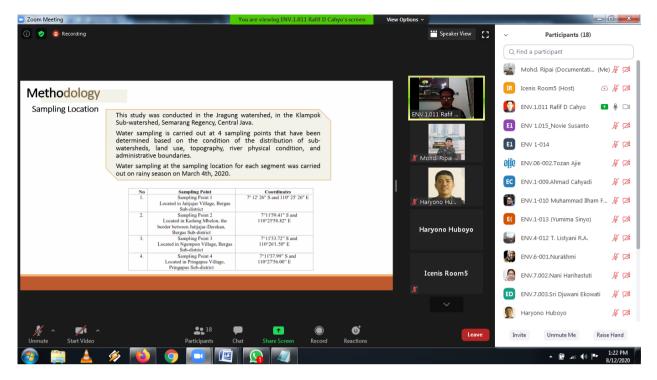
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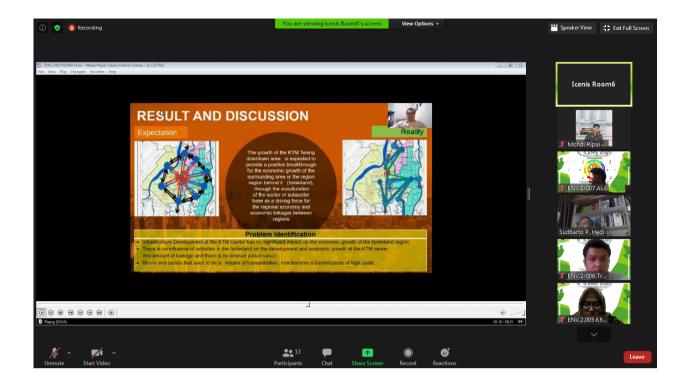
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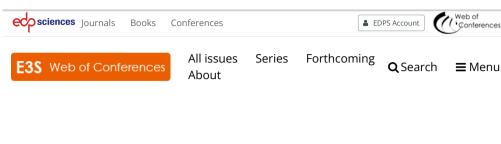


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	<u>No</u> 1.	Sampling Point Sampling Point I Located in Jatijajar Village, Bergas Sub-district	Coordinates 7° 12' 26" S and 110° 25' 26" E		∦ ∦ Haryono Hu
	2.	Sub-district Sampling Point 2 Located in Kedung Mbelon, the border between Jatijajar-Derekan, Bergas Sub-district	7°11'59,41" S and 110°25'58.82" E		Haryono Huboyo
	3.	Sampling Point 3 Located in Ngempon Village, Bergas Sub-district	7°11'33.72" S and 110°26'1.50" E		Icenis Room5
	4.	Sampling Point 4 Located in Pringapus Village, Pringapus Sub-district	7°11'37.99" S and 110°27'56.00" E		
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Table of Contents

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49/56

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53/56

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Phenolic compound derived from microwaveassisted pyrolysis of coconut shell: Isolation and antibacterial activity testing

Dwi Nuryana¹, *Muhammad* Fahrul Rahman Alim¹, *Rendy* Okta Loveyanto¹, *Bayu* Adi Wibowo¹, *Raja* Safazliana Binti Raja Sulong², *Mohd* Amir Asyraf Mohd Hamzah², *Zainul* Akmar Zakaria², and *Ratna* Dewi Kusumaningtyas^{1*}

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> Abstract. Indonesia is rich in natural resources, coconut plantation being one of them. The coconut processing industry produces coconut shell (CS) waste. The most effective technique to increase the value of this waste is to convert CS biomass through pyrolysis process. This research focuses on intensification of conversion process of CS by Microwave-Assisted Pyrolysis (MAP) to obtain PA. PA contains phenolic compounds which have antibacterial properties so they can be formulated as an antibacterial agent. CS has moisture and ash content of 8.89% and 0.21%, respectively. PA was produced from the MAP of CS at 600W at 450°C and 500°C for 10, 20, and 30 minutes. The PA was extracted using ethyl acetate to obtain phenolic contents. Optimum pyrolysis condition was found at 400°C for 30 minutes and yield of PA was determined at 32.20 g with total phenolic content (TPC) of 112.13 mg GAE/g. The inhibition zone of phenolic extract from coconut shell (PECS) using E. Coli was determined within 22-25 mm that quantitatively PECS can effectively kill bacteria. PECS by MAP and its aplication as an antibacterial agent has never been performed, so this work is an important contribution in the intensification of pyrolysis and in medical field

Keyword: Antibacterial agent, Biomass, Microwave-assisted Pyrolysis, Phenolic compounds

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1 Introduction

Indonesia is the second largest coconut producing country in ASEAN after Philippines [1]. The total area of Indonesian coconut plantations in 2018 reached 3.547 million hectares with a total production of 2.866 million tons. The development of coconut production in Indonesia had tendency to increase by 1.95% per year in 1980 - 2018 period [2]. The high demand for processed coconut exports has resulted in increased waste in the form of coirs and coconut shells (CS). A coconut produces 30% fiber while 15% - 19% of the total weight is the weight of the CS [3]. Even as organic waste, the CS cannot decompose quickly in the environment. Therefore, the amount of the waste continues to increase along with the increase in processed coconut products. One of the ways to utilize CS into available products is thermochemical conversion which is pyrolysis. Products of the pyrolysis process include charcoal, tar, gas and pyroligneous acid (PA) [4]. PA is smoke from the pyrolysis process which is condensed into a liquid product consisting of water, alcohol, organic acids, phenols, aldehydes, ketones, esters, furans, pyran derivatives, hydrocarbons, and nitrogen compounds [5]. PA compounds have antibacterial, anti-oxidant and anti-inflammatory properties that are prospective to be utilized for medicinal and pharmaceutical products formulations [6].

Based on its composition, the CS is composed of 3 main components: 26.60% of cellulose, 27.70% of hemicellulose, and 29.40% of lignin [7]. The hemicellulose compound can be degraded at temperatures of 200° C – 260° C, cellulose at 240° C– 350° C, while lignin at 280° C – 500° C [8]. High cellulose and hemicellulose content contribute to higher bio-oil yields, while high lignin content increases biochar yield [9]. Although lignin has a high level of resistance to thermal degradation, decomposition of lignin compounds produces charcoal, carboxylic acids, methanol, phenols and other aromatic compounds in liquid products [10]. Therefore, the high lignin content in a material can produce high phenolic compounds.

Pyrolysis consists of two processes: slow pyrolysis and fast pyrolysis. Slow pyrolysis is a slow process of thermal degradation of organic components in biomass due to the absence of oxygen to a final temperature of approximately 500°C [8]. Fast pyrolysis is a process of pyrolysis using high temperature where raw materials are heated quickly in the absence of air so as to produce vapor and dark brown liquids. This process is more sophisticated and can be carefully controlled to provide high yields on liquid products [11]. Previous researches with these following raw materials have been conducted include slow pyrolysis walnut shells to produce activated charcoal [12], produce PA from palm kernel shell [13] and *Rosmarinus officinalis* leaves [14], produce activated charcoals form rice husk [15], and produce liquid smoke from young coconut, bamboo and durian rind [16]. This research was conducted using conventional thermal heating with an external heater such as a furnace or hot mantle. This heating system is relatively slow and inefficient. Therefore, intensification of the process was carried out. Therefore, the pyrolysis could go more quickly and saved energy by using Microwave-Assisted Pyrolysis (MAP). Research using MAP has been carried out on several biomass such as oil palm fiber to make hydrogen gas [17] and pyrolysis liquid oil [18], palm kernel shell to produce anti – bacterial agent [19] and bio-oil [20], characterization of empty fruit bunch for MAP [21], and pineapple waste to produce PA [22]. However, from a number of previous studies, there have not been any studies found on the application of MAP to CS aimed at utilizing PA as an antibacterial agent.

MAP was developed as an alternative heating source in the pyrolysis process. Volumetric heating properties and better control and uniform heat distribution can be achieved through heating on MAP [23]. MAP can prevent the formation of secondary reactions thereby increasing the quality of the products. MAP technology has the potential

to save energy and reduce process costs. In producing PA, MAP is influenced by several factors including the type of reactor, particle size, pressure, temperature, power level, residence time, flow carrier gas and the use of activated carbon [24]. Therefore, this research investigated the effect of changes in time and temperature in the MAP process to determine the feasible conditions for producing the most PA.

One of the interesting benefits of PA to be investigated is its antibacterial properties. Therefore, the extracts of phenolic compounds in this study were tested on *Escherichia coli* bacteria. In previous studies, PA as the result of the CS MAP process had not been tested as an antibacterial agent. Therefore, this study contributes to the effect of MAP operating conditions on PA products and testing phenolic extracts from coconut shell (PECS) from the results of MAP as an antibacterial agent that can be utilized in the medical field. Specifically, the purpose of this study was to determine the effect of time and temperature on PA production in MAP as well as the characteristics of phenolic extracts as an antibacterial agent.

2 Methodology

2.1 Materials

The materials used in this study included 1) CS from *Cococs nucifera* originating from Bantul, Indonesia; 2) commercial activated carbon granule (C1452-32112392) from HmBG Chemicals, Malaysia; 3) nitrogen gas; 4) ethyl acetate (EA) (99.5%, grade AR); 5) Whatman no. 4 filter paper; 6) rotary evaporator (Heidolph, Germany); 7) UV-Vis spectrophotometer (Shimadzu, Japan).

2.2 Methods

2.2.1 Pre-treatment

CS was cleaned of fiber and dirt, then dried in the sun for 7 days. CS has been dried was subsequently reduced in size by using a hammer mill. Then sieving process was performed so that the same size approximately 1 - 1.18 mm was obtained. The small size CS was stored in a place protected from humidity. Based on the raw material test, the CS used for PA production in this study had water content of 8.89% and ash content of 0.21%.

2.2.2 Microwave-assisted Pyrolysis (MAP)

Microwave-assisted pyrolysis (MAP) was carried out referring to a study conducted by Abas [18] with modification of raw material size of 1-1.18 mm. 100 g materials and 50 g of activated carbon were dried at 105°C for 24 hours. Furthermore, both were put into a reactor made of quartz glass. Thermocouple type-R was mounted on the reactor and connected to the Picolog Data Logger System (PicoLog Recorder software, version 5.23.0) to show changes in temperature during the reaction. Nitrogen gas was flowed at 2 L/min, supplied from the top of the reactor for 15 minutes before the pyrolysis process was conducted. Other modifications were the power output on the microwave of 600W. Pyrolysis temperature was controlled at 400°C and 450°C, while cooling water was set at 6°C for the condensation process. The residence time of the MAP process was carried out in 10, 20 and 30 minutes. Liquid and gaseous products went through the condenser column and was collected in a round bottom flask (at the bottom of the condenser) as a mixture of

PA and bio-oil, while the uncondensed gas was discharged into the environment. Biochar formed in the reactor was called a solid product. The end of this process was to determine the percentage of solid, liquid, and gases product based on the mass of each product.

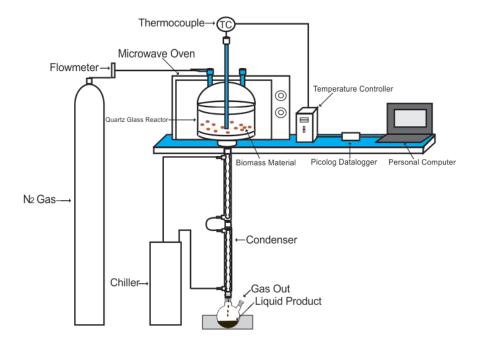


Fig. 1. Microwave-Assisted Pyrolysis

2.2.3 Purification using Extraction Process

Pyroligneous acid (PA) is obtained from the liquid product from the pyrolysis process. The liquid product was filtered using Whatman no. 4 filter paper to separate PA from bio oil and other impurities. Ethyl acetate (EA) solvent was added to the PA referring to the research conducted by Loo et al. [25], with these following modifications: PA was extracted using EA at a ratio of 1: 1 using a 100 mL separatory funnel, was shaken for 3 minutes at room temperature and let it stand for 30 minutes to form two layers. The upper layer was collected as an organic layer and the lower layer as a mixture layer was extracted for the second time using fresh EA. The extracted PA was concentrated using a rotary evaporator (Heidolph, Germany) at a pressure of 120 mBar and a temperature of 80°C to 1/3 of the initial volume. Then phenolic extract from coconut shell (PECS) was stored in a desiccator.

2.2.4 Total Phenolic Content (TPC)

Total phenolic content (TPC) was determined by using the Folin Ciocalteu reagent as was performed by Ma et al. [4], Gallic acid at a concentration of $10 - 100 \mu g/mL$ was used as the standard reference for making calibration curves. Each sample of 1 mL (100 $\mu g/mL$) was mixed with 1 mL of 50% (v/v) of Folin-Ciocalteu phenol reagent in the test tube. The mixture was shaken for 30 seconds and left at room temperature for 2 minutes. After 2 minutes, 1 mL of sodium carbonate (Na₂CO₃) solution was added to neutralize the mixture. The mixture was shaken for 10 seconds and allowed to stand in a dark place for 2 hours at room temperature. Tests were carried out in a dark room because the reagent was sensitive

to light and to reduce UV interference from redox reactions. Measurement of absorbance of a blue mixture was recorded at 765 nm using a UV-Vis spectrophotometer (Shimadzu, Japan). Results were reported as averages expressed as micrograms of gallic acid equivalents (GAE) per milligram of sample (µg GAE/mg)

The TPC concentration was calculated as suggested by Abdelhady et al. [26], as follow:

Total phenolic content (TPC),
$$\frac{\text{mg GAE}}{\text{g}} = \frac{C \times V}{M}$$
 (1)

Where:

C = concentration of Gallic acid established from the calibration curve in mg/ml V = the volume used during assay in mL

M = mass of the extract used during assay in g

2.2.5 Application as Antibacterial Agent

The antibacterial test was conducted by the Central Laboratory of Health and Testing of Medical Apparatus in Central Java. The bacteria used for testing was *Escherichia coli* with the disk diffusion method. The reaction was the formation of a clear zone around the phenolic compound, then the diameter of the clear zone was generated to determine the antibacterial strength.

3 Results and discussion

3.1 MAP Process

The study intended to investigate the relationship between product yield (solid, liquid and gases) with much emphasis on the PA product (liquid), residence time, and temperature. In this work, the pyrolysis process was conducted in different operation condition, in which its sample was mentioned as S1 to S6 as detected in Table 1. The percentage of product yield of MAP were calculated as weight percent (wt %) with initial CS of 100 gram.

Symbols	Temp (°C)	Time (min)	Char (wt %)	Liquid (wt %)	Gas (wt %)
S1	400	10	33.28	26.62	40.10
S2	400	20	33.39	27.63	38.98
S3	400	30	33.41	32.20	34.40
S4	450	10	37.63	20.94	41.43
S5	450	20	38.24	24.91	36.86
S6	450	30	33.85	30.03	36.12

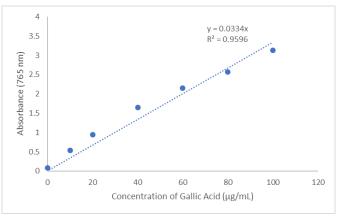
Table 1. Comparison of MAP product yield for various operation condition

The effect of temperature change was proven when the thermal heating level increased to 450°C, the liquid yield decreased while the gas yield increased. Operating conditions at high temperatures cause larger molecules such as liquids to split to produce gas. This is consistent with previous research [27]. The effect of residence time was proven when residence time increased to 30 minutes, liquid yield increased while char and gas yield decreased. This is consistent with previous research [13]. Low temperatures and long

residence times support char production, while higher temperatures and short residence times result in high liquid product production [28].

3.2 Total Phenolic Content (TPC)

The TPC was determined from linear equation of gallic acid calibration curve with the specific at Fig. 2 was expressed in microgram which equals to gallic acid per milligram sample (μ g GAE/mg). Absorbance of mixtures containing gallic acid, Folin Ciocalteu and sodium carbonate increases proportionately with increasing concentrations of gallic acid [29]. The calculation results of TPC S1 to S6 are shown on Table 2.



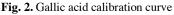


Table 2. TPC of PA extracts

Symbol	S1	S2	S3	S4	S5	S6
PA (g)	26.62	27.63	32.20	20.94	24.91	30.03
TPC (mg GAE/g)	85.03	96.41	112.13	72.90	90.87	111.68

In this work, the highest TPC of 112.13 mg GAE/g was observed in S3 under MAP operating conditions at 400°C for 30 minutes. Because phenolic compounds are not decomposed in low temperature conditions. Furthermore, some phenolic compounds that dissolve in water are extracted into water in lower temperature conditions due to low evaporation of water [4]. The phenolic structure can be maintained at lower temperatures under lower vapor pressure in the reactor because some phenols are primary pyrolysis products and are produced mainly by cracking $\beta - O - 4$ aryl ether bonds in lignin [30]. Previous studies reported that TPC in PA extract of pineapple biomass was 2.67 ± 0.14 mg GAE [22] and palm kernel shell was 49.96 mg GAE/g [29]. This shows that TPC in CS is greater than pineapple biomass and palm kernel shell.

3.3 Antibacterial Activity

Six samples of phenolic extract from coconut shell (PECS) were tested for their antibacterial activities at the Central Laboratory for Health and Medical Apparatus Testing in Central Java. The results are shown in Fig. 3.

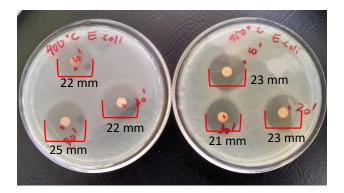


Fig. 3. Antibacterial activity of PECS on inhibition of Escherichia coli

According to Davis dan Scout [31], anti-bacterial activity in the clear zone test is divided into the following: the diameter of zone of inhibition which is less than 5 mm is categorized as weak, zone of inhibition of 5 - 10 mm is categorized as medium, zone of inhibition of 10 - 20 mm is categorized as strong, and zone of inhibition more than 20 mm is categorized as very strong. The test results showed the antibacterial activity of each sample of coconut shell phenolic compounds was very strong. Samples that had the largest zone of inhibition diameter were at S3 (25 mm) with MAP 400°C operating conditions for 30 minutes. The diameter of inhibition zone can be influenced by TPC concentration. The higher concentration leads to the higher antibacterial activity [32]. The reduction of important organic ions that enter the cell results in inhibited growth to death of the cell [33]. Damage to the bacterial cell wall results in decreased permeability of the cytoplasmic membrane to transfer important ions needed by bacteria. The high phenolic compounds in PECS can denature proteins contained in bacterial cell walls so that the inhibitory ability of PECS can act as an antibacterial agent.

4 CONCLUSION

From this study, MAP of CS samples under different operating conditions showed the highest liquid product acquisition at 400°C with residence time of 30 minutes. Based on the TPC test of PA extract (PECS), PA from MAP with this condition has the highest concentration of 112.13 mg GAE/g and shows the largest bacterial growth zone of inhibition, which is 25 mm. However, more studies must be carried out prior to any commercialization attempts for this compound.

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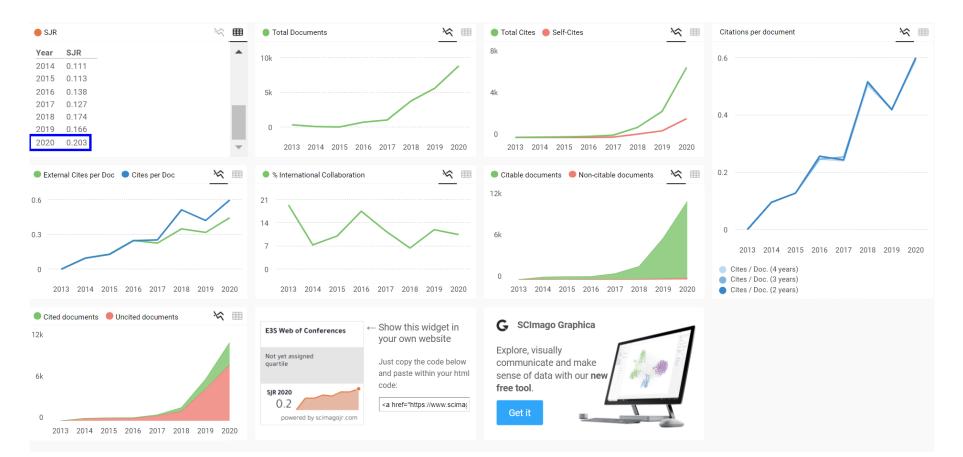
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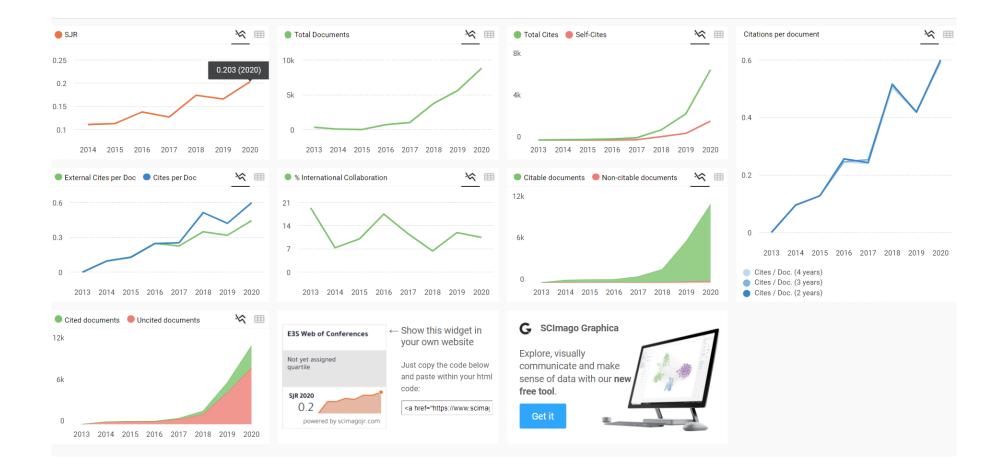
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