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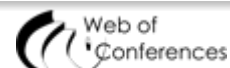


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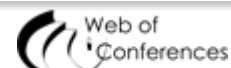


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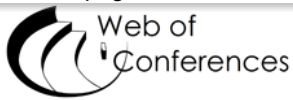
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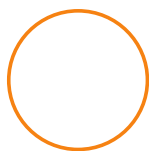
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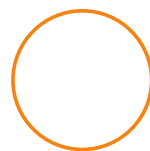


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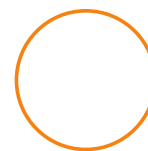
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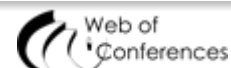


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Undesignated Academic Mosque Response Toward COVID--19 Pandemic

Bangun I.R Harsritanto^{*1}, *Satrio Nugroho*¹, *Favian Dewanta*²

¹ Architecture Department, Engineering Faculty, Universitas Diponegoro, Semarang, Indonesia

² School of Electrical Engineering, Engineering Faculty, Telkom University, Bandung, Indonesia

Abstract. Mosque is a unique building by the function as muslim prayer room. Indonesia as the world biggest muslim country has mandated each building to provide prayer room especially mosque by issuance of Ministry of Public Work- Housing Settlement decree no.14/2017. Academic building like cam-puss also mandated to have the campus mosque to facilitate the Muslim's civitas academia performing their prayer. However, the campus buildings commonly were not designed with mosque facility in purpose. Thus, campus designer performed remodelling their building to meet this demand. During the pandemic COVID--19 in Indonesia, some of undesignated academic mosques in Architecture Undip were responded it with various adaptation. This study purposed to investigate the responses of those mosque and try to figure the scheme of adaptation phase using descriptive analysis. The result of this study found that the places were follow the government advices and brought alone prayer into common practice.

1 Introduction

Mosques is unique building which having various frequency at different days and hours for Muslims activities such: praying, reciting Quran, social works, etc. The design and features of the mosques or musholas were related to contextual site, culture interactions and geographical factors [1]. Mosques were designed to have schematic prayer space where the long edge is directing to qibla (the bait of Allah/Kabah on Mecca) and ablution (wudhu) room to support pre-prayer activities [2].

Almost a quarter population of the world are muslim. Therefore, muslim community built many mosques throughout the earth as their demand in prayer space. Mosque is integral part of all Muslim community and not only that, the mosque also identity in muslim countries as their position of muslim population [3]. Indonesia as the world biggest muslim country has mandated each buildings to provide prayer room especially mosque by issuance of Ministry of Public Work- Housing Settlement decree no.14/2017. The decree also strictly stated that mushola must installs : clear direction to Qibla, distinctive separation between profane and common room, and proper thermal and lighting comfort [4]

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Oil palm and banana root colonization potential of locally isolated nitrogen-fixing and phosphate-solubilizing bacteria

Then Kek Hoe¹, Mohamad Roji Sarmidi², Sharifah Shahrul Rabiah Syed Alwee¹, and Zainul Akmar Zakaria^{2*}

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Keywords: oil palm; banana; root; bacteria; electron microscopy

Abstract. Oil palm and banana are the biggest commodity crop and the second largest fruit crop planted in Malaysia. Both oil palm and banana are highly nutrient-demanding crops that requires a large amount of fertilizer input. This presents an opportunity to find alternative source of nutrient that is much cheaper than the imported inorganic fertilizer. Currently, the most feasible alternative to the inorganic fertilizer is the recycling of the organic-rich oil palm empty fruit bunch (EFB) to produce EFB compost as well as the incorporation of nitrogen-fixing bacteria (NFB) and phosphate-solubilising bacteria (PSB) to the EFB compost to increase the supply of nitrogen and phosphorous to the plant at different stages of growth. Hence, the objective of this study was to isolate, screen and identify indigenous bacterium, from the root surroundings of oil palm and banana plant, with highest nitrogen-fixing and phosphate-solubilizing properties. Three NFB and PSB strains (*Enterobacter cloaceae* KU886016, *Burkholderia cepacia* KU925862, *Serratia marcescens* KU925861), were successfully isolated and formulated as biofertilizer for evaluation on oil palm and banana seedlings. *Enterobacter cloaceae* KU886016 showed higher root colonization ability compared to *Burkholderia cepacia* KU925862 and *Serratia marcescens* KU925861, as shown from the FESEM analysis. This finding is important as a direct indication on the suitability of using these bacteria in field application as biofertilizer. Long-term expectation is for this finding to be able to assist in reducing the dependency on imported inorganic fertilizers, reducing operational cost as well as promoting sustainable soil health.

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

1 Introduction

Every activity is associated with some consequences; the desired objective of the activity usually leading to some benefit to society but also with some undesired outcomes which are unplanned, but inevitable. In practice, thermodynamics does not allow us to break even and we will end up losing some utility whenever there is an activity or transformation. Activities in nature must also follow this law, but a decrease in entropy is powered by energy from the sun. Activities in nature are part of ecosystems, large and small, which are very delicately but efficiently balanced in a way that there is no waste per se. All elements/substances move in cycles which is, for example, easily evident in the hydrological cycle which represents the cyclic movement of water on earth. There are many such biogeochemical cycles for nitrogen, sulphur and so on. Industrial activities, on the other hand, have largely been developed in a linear format – so called take, make, use and dispose (Figure 1). We take valuable resources from nature, transform them to products which are then used and finally go back to nature in the form of waste – solid, liquid or gaseous. The loop is not “closed”. Hence, every activity must somehow lead to some form of pollution being produced.

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