

## Earning Doctorate After Researching Nutrient Content in Bedono Beach

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Drs. Partaya, M.Si., a Lecturer at Biology Education Department, Faculty of Mathematics and Natural Sciences, Semarang State University, succeeded to earn the doctoral degree from UGM. He succeeded to graduate from Doctoral Programme at Environmental Science, Graduate School UGM.

Partaya defended his dissertation entitled *Dynamics of Nutrient in Mangrove Ecosystem at Bedono Beach, Sayung Subdistrict, Demak Regency*. His promotor was Prof. Dr. Ir. Chafid Fandeli, M.S., and his co-promotors were Prof. Dr. Sunarto, M.S. and Prof. Dr. Suwarno Hadisusanto, M.S.

In the occasion, Partaya presented his research regarding the dynamics of nutrients in the sediments and mangrove ecosystem at Bedono Beach. Based on his research, it is known that the sediments in the mangrove ecosystem at Bedono Beach contain organic carbon compound (C-organic) and a high nitrogen, phosphor, as well as potassium contents. On the other hand, the nutrient in mangrove water area has a high C- organic, sodium, phosphor, and potassium contents.

“Overall, the nutrient content in Bedono Beach area is high, thus it is good for the mangrove to grow,” said Partaya on Wednesday (26/7).

Moreover, it is also known that the mangrove density on the beach is of fairly high criteria. The dominant mangrove species over there is *Avecennia marina*.

The other finding indicates the number of macrobenthos at Bedono Beach which is quite abundant. The macrobenthos diversity index is included in the good criterion. Meanwhile, based on the data taken in March 2016, the dominant macrobenthos species over there are *Natica fasciata* and *Cassidula sulculosa*.

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