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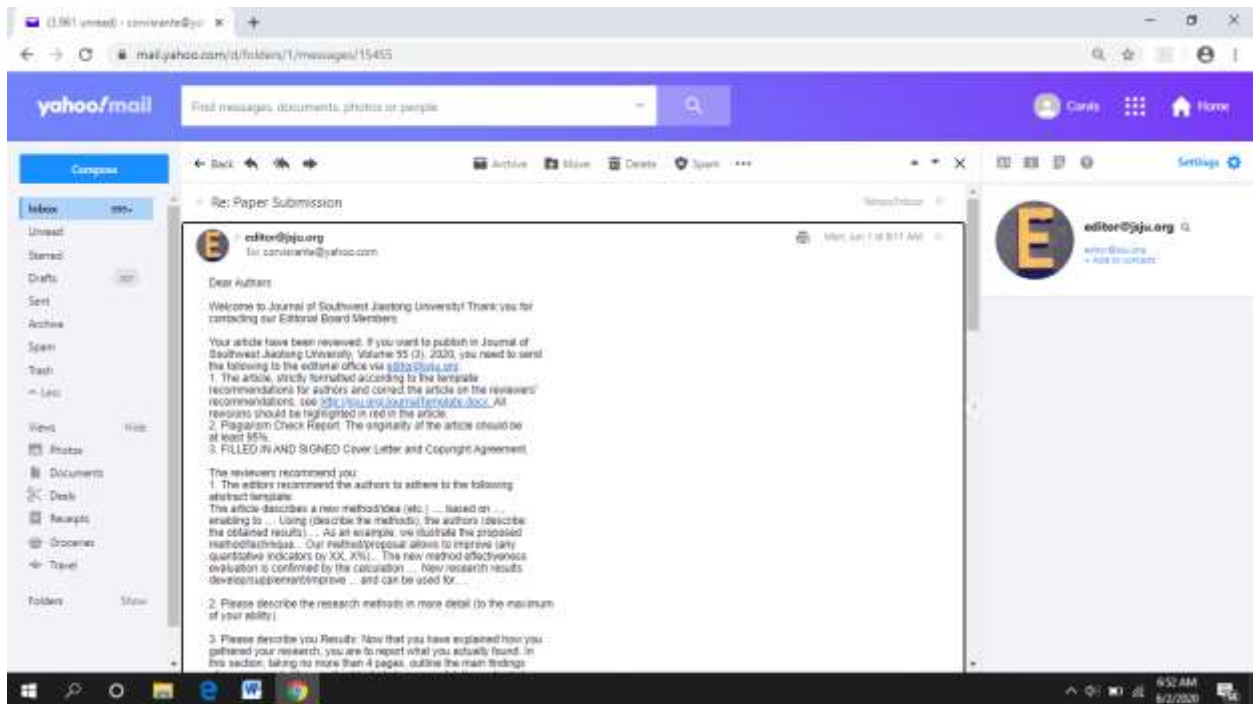
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- Corresponding Author's Email Address: canvarama@jstuo.com
- Author(s): Corvik L. Rantawong, Budjito Soeparnan, Rudy Soensko, Slamet Wahyudi
- Keywords: Fluid Dynamics, Double Nozzle, Turbine

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 > Author(s): Corvus L Ranfenerung, Scotts Sompornrat, Rully Soenarto,  
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> Author(s): Corvis L Rantererung , Sudjito Soeparman , Rudy Soenoko ,

> Slamet Wahyudi

> Keywords: Fluid Dynamics, Double Nozzle, Turbine

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Vol. No.  
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A DOUBLE NOZZLE CROSS FLOW TURBINE FLUID FLOW DYNAMICS

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Keywords : Fluid Dynamics, Double Nozzle, Turbine

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2. Sudjito Soeparman  
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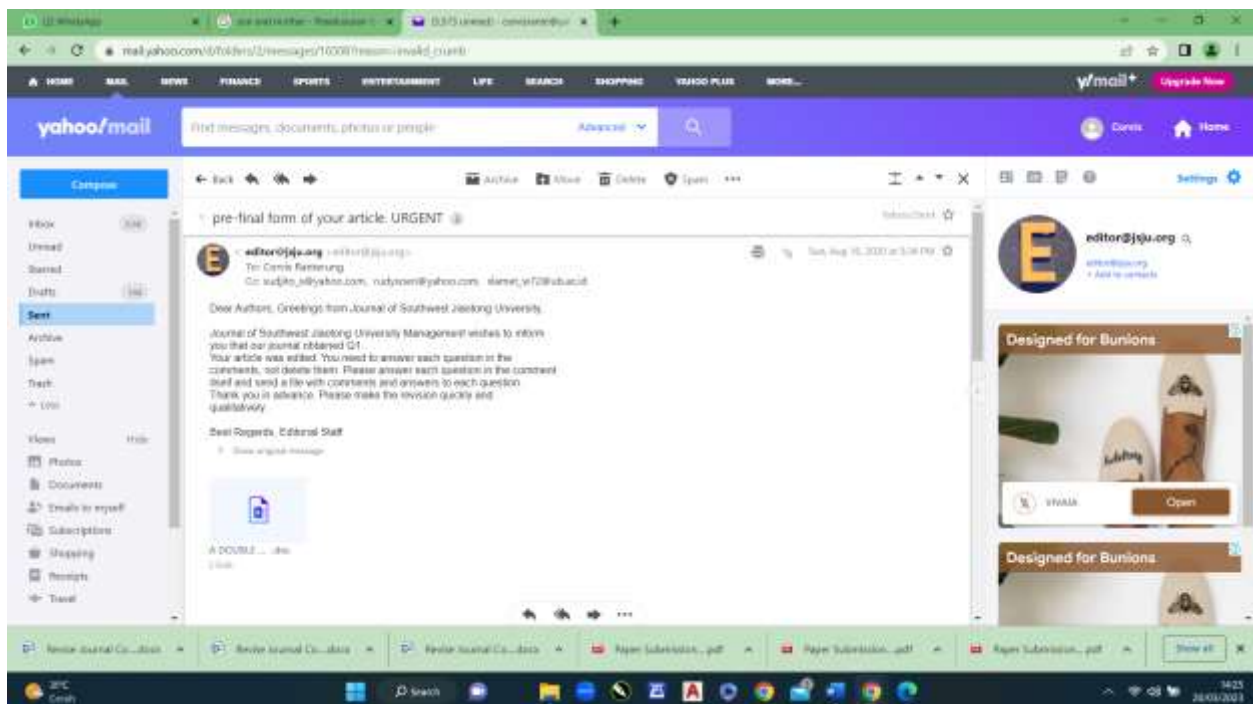
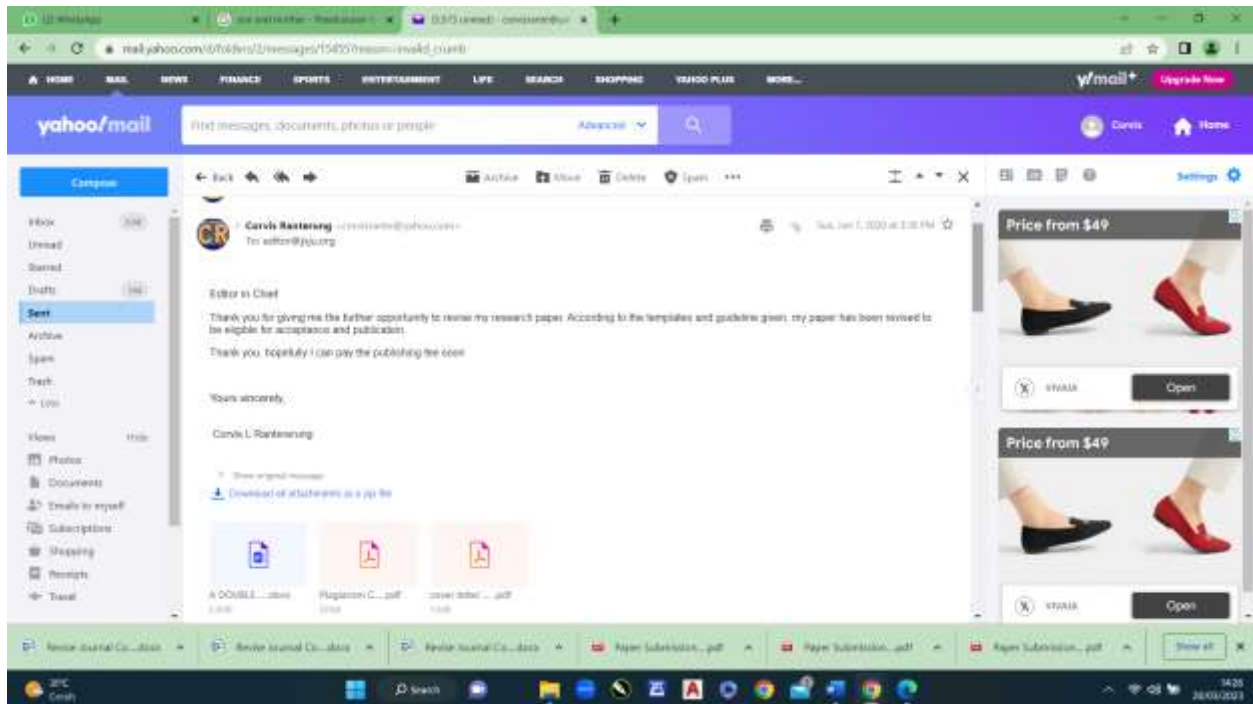
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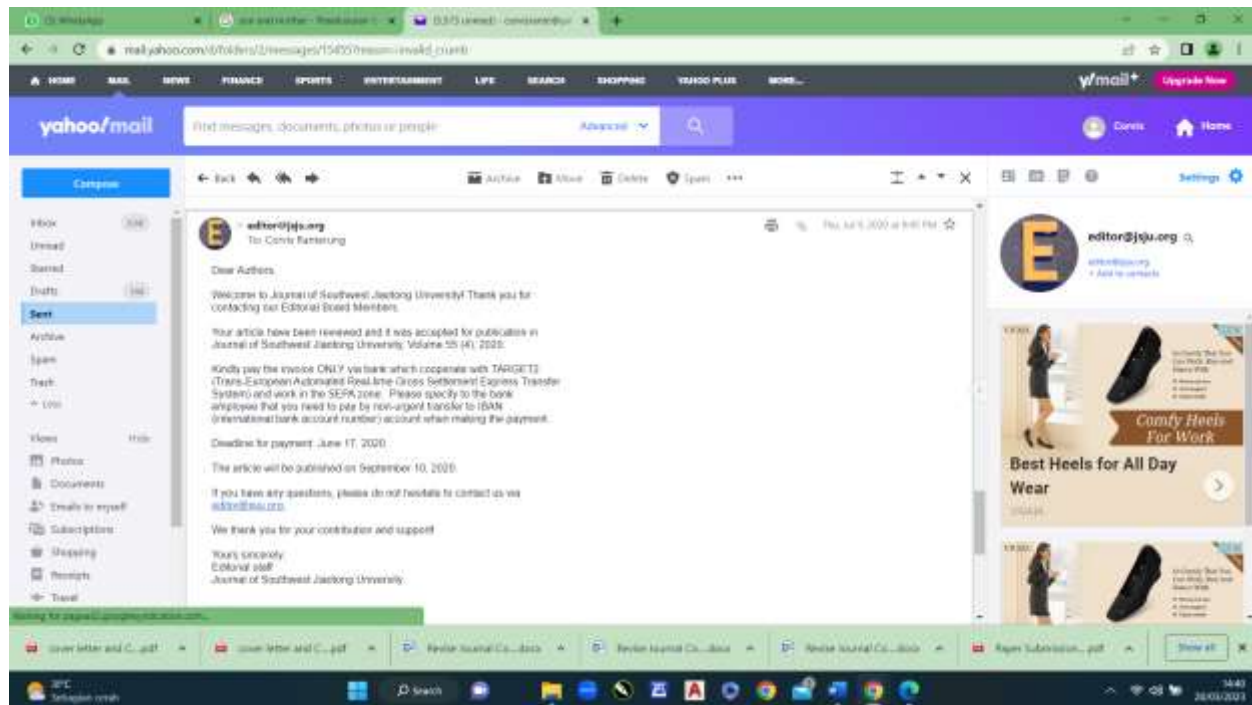
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Research Article

Engineering

## A DOUBLE NOZZLE CROSS FLOW TURBINE FLUID FLOW DYNAMICS

雙噴嘴交叉流輪機 流體流動動力學

Corvis L Rantererung<sup>a,b</sup>, Sudjito Soeparman<sup>b</sup>, Rudy Soenoko<sup>b</sup>, Slamet Wahyudi<sup>b</sup>

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MT Haryono 167, Malang, Indonesia. [sudjito\\_s@yahoo.com](mailto:sudjito_s@yahoo.com), [rudysoen@yahoo.com](mailto:rudysoen@yahoo.com), [slamet\\_w72@ub.ac.id](mailto:slamet_w72@ub.ac.id)

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### Abstract

The dynamics of fluid flow are very important to the process of converting water energy into mechanical energy at the nozzle double runner cross flow turbine blade. Fluid dynamics of a jet of water from a nozzle release energy as the water crosses the cross flow turbine runner. This research aims to improve turbine performance and the effectiveness of fluid flow dynamics that drive cross flow turbine runner blades using double nozzles. The method of research using a cross flow turbine with double nozzle is a combination of vertical and horizontal nozzles. The turbine runner casing and blade are made of transparent acrylic material so that the flow dynamics can be observed directly. The laboratory scale double nozzle cross flow turbine is comprised of 24 blades, 3 mm thick, 40 mm long and 200 mm runner blade diameter. Test the performance of the turbine by measuring rotation, torque, and power, and by photographing the dynamics of the fluid flow that drives the turbine runner blade. The results of the study found that the visualization of the dynamics of fluid flow in turbines with double nozzles is more regular, evenly distributed, focused, and directed, moving the turbine runner blade cross flow so as to be able to increase turbine performance higher. The highest double nozzle cross flow turbine performance is 6.04 Watt power and 81.68% efficiency, at a water discharge of 0.22 liters /s.

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