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KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Effect of Inertia on the Cavitation Phenomena of Hydrodynamic Textured Bearings Considering Slip

Jumlah Penulis : 4 orang (J. Jamari, M. Muchammad, F. Hilmy, **M. Tauviquirrahman**)

Status Pengusul : Penulis Korespondensi

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- b. Nomor ISSN : ISSN: 1678-5878 E-ISSN: 1806-3691
- c. Vol, No., Bln Thn : Volume 41, Nomor 387, September 2019
- d. Penerbit : Springer Berlin Heidelberg
- e. DOI artikel (jika ada) : 10.1007/s40430-019-1890-9
- f. Alamat web jurnal : <https://link.springer.com/journal/40430>
- Alamat Artikel : http://eprints.undip.ac.id/76271/1/Effect_of_inertia_on_the_cavitation_phenomena_of_hydrodynamics.pdf
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NIP. 196204281990012001
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Semarang, 5 April 2020

Reviewer 2

Ojo Kurdi, S.T., M.T., Ph.D
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Tata Bahasa yang digunakan serta ruang lingkup pembahasan dipresentasikan dengan baik. Pembahasan meliputi pemodelan matematis fenomena fisik slip untuk menyelesaikan kasus pelumasan pada *bearing*. Hasil-hasil simulasi juga divalidasi dengan hasil orang lain yang sudah dipublikasikan. Hasil review yang ada juga mencerminkan tim reviewer artikel jurnal yang memiliki kepakaran yang baik. Nilai (12)

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Semarang, 22 Maret 2020
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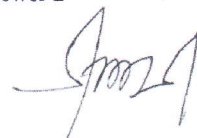
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Total = (100%)	40,00				39,00
Nilai Pengusul (kontribusi penulis korespondensi) = 40% x 39,00 = 15,60					
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Semarang, 3 April 2020

Reviewer 2



Ojo Kurdi, S.T., M.T., Ph.D.
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Volume 41, Issue 9, 1 September 2019, Article number 387

Effect of inertia on the cavitation phenomena of hydrodynamic textured bearings considering slip (Review)

Jamari, J.^a, Muchammad, M.^b, Hilmy, F.^a, [Tauviqirrahman, M.^a](#)  

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^bLaboratory for Surface Technology and Tribology, Faculty of Engineering Technology, University of Twente, Drienerloolan 5, Postbox 217, Enschede, 7500 AE, Netherlands

Abstract

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Surface modification of a lubricated bearing, such as hydrophobic coating inducing slip situation and texturing, is proved to enhance hydrodynamic performance. As widely known, in textured surface lubricant inertia and cavitation can significantly affect the hydrodynamic pressure profile. However, a brief literature review indicates that studies related to the correlation between cavitation and inertia, especially in the presence of slip, are considerably limited. The present study examines the effect of inertia on cavitation phenomena by considering the slip boundary using two approaches, namely computational fluid dynamics based on full Navier–Stokes equations and analytical lubrication equation based on the Reynolds equation. The modified Reynolds equation with slip concept is used with respect to the slip effect applied on the surface of the bearing. The results indicate that the inertia as well as the slip condition significantly affects the cavitation area. It is also highlighted that the cavitation area reduces by increasing the inertia effect, and it becomes smaller when the slip is introduced. © 2019, The Brazilian Society of Mechanical Sciences and Engineering.

SciVal Topic Prominence ⓘ

Topic: Drag reduction | Molecular dynamics | Boundary slip

Prominence percentile: 95.394 ⓘ

Author keywords

[Cavitation](#) [Computational fluid dynamics \(CFD\)](#) [Inertia](#) [Lubrication](#) [Slip](#)

Indexed keywords

Engineering controlled terms: [Computational fluid dynamics](#) [Hydrodynamics](#) [Lubrication](#) [Navier Stokes equations](#) [Reynolds equation](#) [Textures](#)

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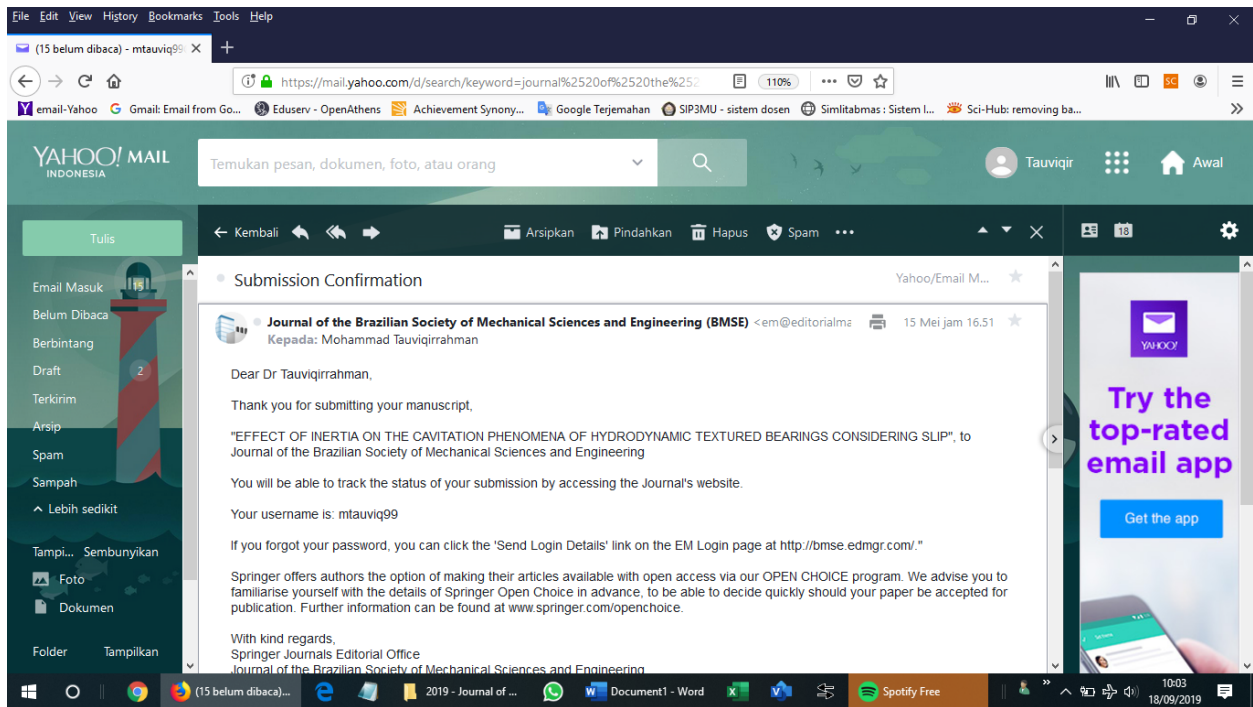
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1. Submission (15 Mei 2019)



Submission Confirmation
Yahoo/Email Masuk

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Journal of the Brazilian Society of Mechanical Sciences and Engineering
(BMSE) <em@editorialmanager.com>

Kepada: **Mohammad Tauviquirrahman**

15 Mei jam 16.51

Dear **Dr Tauviquirrahman,**

Thank you for submitting your manuscript,

"EFFECT OF INERTIA ON THE CAVITATION PHENOMENA OF HYDRODYNAMIC
TEXTURED BEARINGS CONSIDERING SLIP", to Journal of the Brazilian Society of
Mechanical Sciences and Engineering

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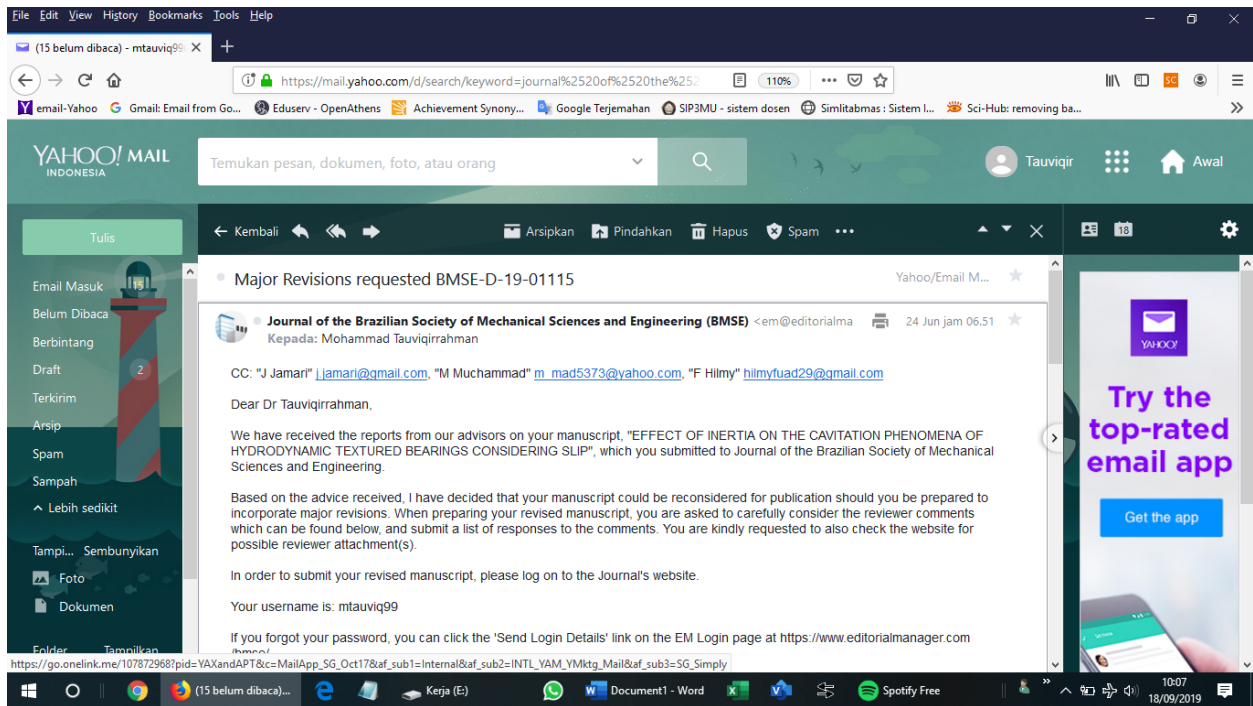
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2. Major revision (24 Juni 2019)



Major Revisions requested BMSE-D-19-01115
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(BMSE) <em@editorialmanager.com>
Kepada: Mohammad Tauviquirrahman
24 Jun jam 06.51
CC: "J Jamari" j.jamari@gmail.com, "M Muchammad" m_mad5373@yahoo.com, "F Hilmy"
hilmyfuad29@gmail.com

Dear Dr Tauviquirrahman,

We have received the reports from our advisors on your manuscript, "EFFECT OF INERTIA ON THE CAVITATION PHENOMENA OF HYDRODYNAMIC TEXTURED BEARINGS CONSIDERING SLIP", which you submitted to Journal of the Brazilian Society of Mechanical Sciences and Engineering.

Based on the advice received, I have decided that your manuscript could be reconsidered for publication should you be prepared to incorporate major revisions. When preparing your revised manuscript, you are asked to carefully consider the reviewer comments which can be found below, and submit a list of responses to the comments. You are kindly requested to also check the website for possible reviewer attachment(s).

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We look forward to receiving your revised manuscript before 23 Jul 2019.

Please make sure to submit your editable source files (i. e. Word, TeX)

Thank you very much.

With kind regards,

Jader Barbosa Jr.
Editor in Chief

COMMENTS FOR THE AUTHOR:

Reviewer #1: Review of the manuscript entitled "Effect of inertia on the cavitation phenomena of hydrodynamic textured bearings considering slip"

The paper presents analysis of textured hydrodynamic bearings considering slip based on CFD and modified RE.

1. Analysis based on slip coefficient and texture depth are presented. Authors may also consider to highlight on inertia effects.
2. Analytical expressions for load capacity are presented in Appendix based on Ref [21]. Results of bearing load support may be included in this manuscript.
3. Authors may also consider to validate the results presented in this manuscript with related works published in literature.

The manuscript is recommended for publication in Journal of the Brazilian Society of Mechanical Sciences and Engineering with revisions.

Reviewer #2: The following are the reviewer comments:

1. The author used software package to solve NSE. So kindly include mesh size and type of elements used and boundary conditions considered.
2. Is the cavitation condition used is mass-conservative??
3. No Validation result of the model is shown. So what is the confirmation that the obtained results are correct?
4. What is the scientific reason for selecting the values which are shown in Table 1.
5. Is Full NS Equation solved? The reviewer thinks that the author assumed some assumptions.
6. On what basis the values of 'b' is considered.
7. The result shown in the Figs. 5,6 and 7 are same as depicted in Figs. 3 & 4. There is no need of these figures. Just to show more figures, the author represent the same result in different forms.
8. In the whole paper the author has shown only four results each using NS equations and Re equations i.e. slip and cavitation, no-slip and cavitation, slip and no-cavitation and no-slip and no cavitation. The reviewers thinks that some more results can be added by varying the operating and geometrical parameters.
9. Reviewer is expected to explain why the inertia is affecting cavitation and slip.
10. In page No.11, row 40. The author has repeated the word inertia twice.
11. It is very difficult to understand the following sentences.
Page no.3, row 45. "inertia effect increases with increases in Reynolds number"
Page No.3, row 57. "Significantly affects increases in the values....".
Page No.4, row 40. Nonacademic writing "The available survey indicates that"
Page No.4, row 44. Nonacademic writing. " rephrase computational-fluid-dynamic (CFD) with computational-fluid-dynamics (CFD)"
Page No.10, row 33, 34. Nonacademic writing. "The most possible explanation to explain this is that the inertia may alter the flow so much in that area".
Page no.11, row 19,20. Grammatical error "It can be also".
Page No.11, row 52. Nonacademic writing. "both for of....."

As a whole the paper needs some more results and Validation of the model. Therefore the reviewer is against the publication unless these comments are addressed.

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First of all, we would like to thank the referee for the review of the manuscript and his/her constructive remarks. We believe that our manuscript has been significantly improved by implementing his/her suggestions, as detailed below and in the revised version of the manuscript.

Reviewer #1: Review of the manuscript entitled "Effect of inertia on the cavitation phenomena of hydrodynamic textured bearings considering slip" The paper presents analysis of textured hydrodynamic bearings considering slip based on CFD and modified RE.

Analysis based on slip coefficient and texture depth are presented. Authors may also consider to highlight on inertia effects.

Author response: We thank the reviewer for the remarks. The effect inertia has been highlighted in Abstract, Conclusion and in more detail in Section "Discussion".

2. Analytical expressions for load capacity are presented in Appendix based on Ref [21]. Results of bearing load support may be included in this manuscript.

Author response: We thank the reviewer for the suggestions. The results of load support have been added in Section "Discussion".

3. Authors may also consider to validate the results presented in this manuscript with related works published in literature.

Author response: We thank the reviewer for the remarks. The validation of the developed methods has been added in Section "Validation".

Reviewer #2: The following are the reviewer comments:

1. The author used software package to solve NSE. So kindly include mesh size and type of elements used and boundary conditions considered.

Author response: We thank the reviewer for the remarks. The mesh size and type of elements used and boundary conditions have been added in Section 2.3.

2. Is the cavitation condition used is mass-conservative?

Author response: Yes. The cavitation condition used for CFD analysis is mass-preserving model, i.e. Zwart–Gelber–Belamri. For analytical analysis based on Reynolds equation, the model of cavitation employed here represents mass conserving equations as described in detail in previously published work [21]

3. No Validation result of the model is shown. So what is the confirmation that the obtained results are correct?

Author response: We thank the reviewer for the remarks. The validation of the developed methods has been added in Section "Validation".

4. What is the scientific reason for selecting the values which are shown in Table 1.
Author response: We thank the reviewer for the remarks. The values in Table 1 is inspired by the previously published works of Muchammad et al. [21], Olver et al. [22] and Fowell et al. [23].
5. Is Full NS Equation solved? The reviewer thinks that the author assumed some assumptions.
Author response: In the present work, we use a commercial software ANSYS FLUENT to solve full Navier-Stokes equations taking into account the inertia terms. These results are then compared with the results by analytical equation based on Reynolds equation.
6. On what basis the values of 'b' is considered.
Author response: In the present work, the values of 'b' are chosen based on the previously published work of Dobrica and Fillon [7] dealing with the inertia effect. They stated that the indicator of the inertia occurrence is not only measured by Reynolds number, but also by the texture aspect ratio (which is defined by the ration the dimple length over the dimple depth). In this work, the texture aspect ratio is varied by varying the texture length b and texture depth h_d as shown in Table 1) while Reynolds number is kept constant. By varying the value of b as well as the value of h_d , we can investigate how strong the inertia effect with respects to the slip condition and the cavitation.
7. The result shown in the Figs. 5,6 and 7 are same as depicted in Figs. 3 & 4. There is no need of these figures. Just to show more figures, the author represents the same result in different forms.
Author response: We thank the reviewer for the remarks. Figures 5-7 have been deleted. As a consequence, more discussion for Figs. 3 and 4 has been added to show the correlation between the inertia, cavitation, and the slip.
8. In the whole paper the author has shown only four results each using NS equations and Re equations i.e. slip and cavitation, no-slip and cavitation, slip and no-cavitation and no-slip and no cavitation. The reviewers think that some more results can be added by varying the operating and geometrical parameters.
Author response: We do agree with the referee also about this point. For this reason, we have added some results in a Section 3.2 dealing with the variation of geometrical texture. In addition to the case of h_d of 2 μm , the case of h_d of 4 μm varying the b values is also of particular interest.
9. Reviewer is expected to explain why the inertia is affecting cavitation and slip.
Author response: Following the reviewer's remarks, the discussion regarding with the correlation between inertia, cavitation, and slip has been added in Section "Results" and "Discussion".
10. In page No.11, row 40. The author has repeated the word inertia twice.
Author response: Following reviewer's remarks, the sentence has been revised. It should be "cavitation".

11. It is very difficult to understand the following sentences.

Page no.3, row 45. "inertia effect increases with increases in Reynolds number"

Author response: Following reviewer's remarks, the sentence has been revised. It should be "... inertia effect increases with increasing Reynolds number and decreasing dimple aspect ratio (i.e. ratio of dimple length to dimple depth)."

Page No.3, row 57. "Significantly affects increases in the values....".

Author response: Following reviewer's remarks, the sentence has been revised. It should be "... the longitudinal inertia has a dominant influence on the increase in the values of the bearing mechanical parameters, ... "

Page No.4, row 40. Nonacademic writing "The available survey indicates that"

Author response: Following reviewer's remarks, the sentence has been revised. It should be "The literature survey shows that ..."

Page No.4, row 44. Nonacademic writing. " rephrase computational-fluid-dynamic (CFD) with computational-fluid-dynamics (CFD)"

Author response: Following reviewer's remarks, the rephrase "computational fluid dynamics" has been used throughout the manuscript.

Page No.10, row 33, 34. Nonacademic writing. "The most possible explanation to explain this is that the inertia may alter the flow so much in that area".

Author response: Following reviewer's remarks, the sentence has been revised. It should be "The reason behind this is that the inertia alters the flow behavior in that area."

Page no.11, row 19, 20. Grammatical error "It can be also".

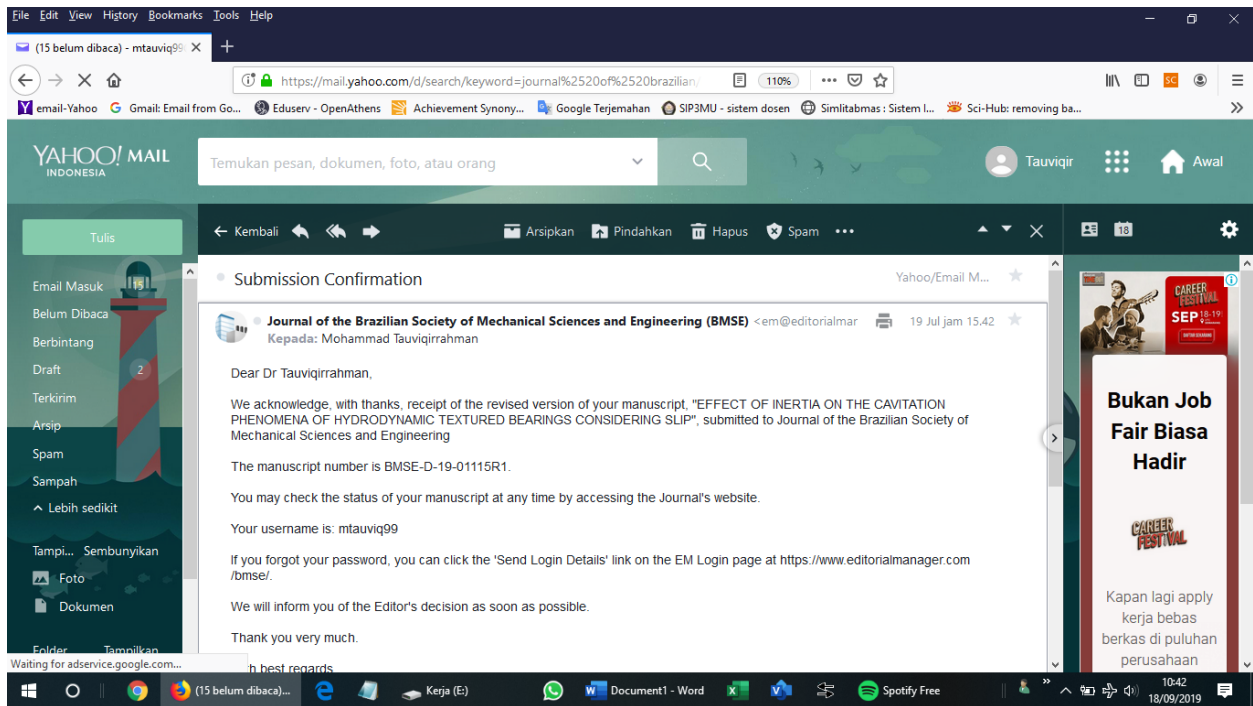
Author response: Following reviewer's remarks, the sentence has been revised.

Page No.11, row 52. Nonacademic writing. "both for of....."

Author response: Following reviewer's remarks, the sentence has been revised.

Thanks a lot for your kind and valuable comments about our work.

3. Revise confirmation (19 Juli 2019)



Submission Confirmation
Yahoo/Email Masuk

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Journal of the Brazilian Society of Mechanical Sciences and Engineering
(BMSE) <em@editorialmanager.com>
Kepada: Mohammad Tauviqirrahman
19 Jul jam 15.42
Dear Dr Tauviqirrahman,

We acknowledge, with thanks, receipt of the revised version of your manuscript, "EFFECT OF INERTIA ON THE CAVITATION PHENOMENA OF HYDRODYNAMIC TEXTURED BEARINGS CONSIDERING SLIP", submitted to Journal of the Brazilian Society of Mechanical Sciences and Engineering

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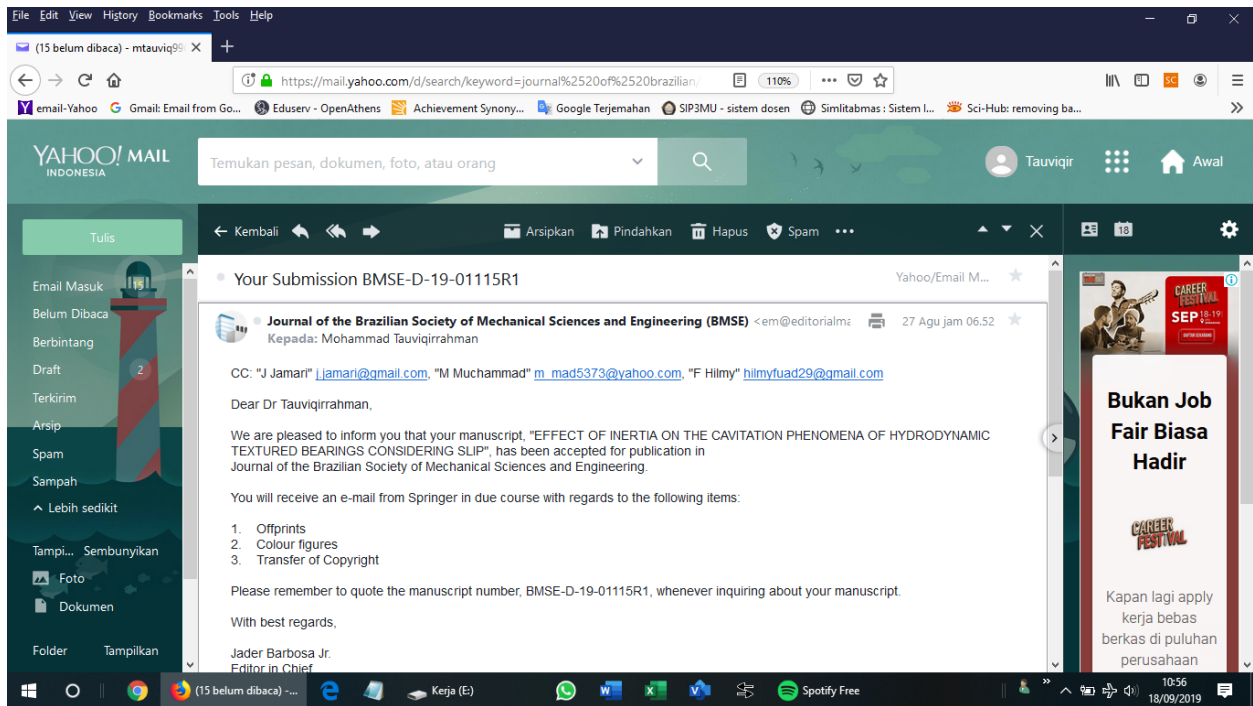
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4. Acceptance (27 Agustus 2019)



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(BMSE) <em@editorialmanager.com>
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CC: "J Jamari" j.jamari@gmail.com, "M Muchammad" m_mad5373@yahoo.com, "F Hilmy"
hilmyfuad29@gmail.com

Dear Dr Tauviquirrahman,

We are pleased to inform you that your manuscript, "EFFECT OF INERTIA ON THE CAVITATION PHENOMENA OF HYDRODYNAMIC TEXTURED BEARINGS CONSIDERING SLIP", has been accepted for publication in Journal of the Brazilian Society of Mechanical Sciences and Engineering.

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With best regards,

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Editor in Chief

Reviewer #1: Authors have incorporated reviewers suggestions in the revised manuscript. The revised manuscript is recommended for publication in Journal of the Brazilian Society of Mechanical Sciences and Engineering

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