

Monthly Mathematical Colloquium (MMC) 2, 2023

Last Updated: 24 March 2023 Hits: 42


On 17 March 2023, *Pusat Sains Matematik* (PSM) has been successfully organised the second Monthly Mathematical Colloquium for 2023. As the second session colloquium in 2023, the colloquium's audience has been presented with knowledge sharing from a Doctor of Philosophy (Ph.D.) student Siti Farah Haryatie Mohd Kanafiah under the supervision of Assoc. Prof. Dr Abdul Rahman Mohd Kasim. Specifically, the student had shared her research project entitled "*Free Convection Boundary Layer Flow of Brinkman Viscoelastic Fluid Over a Horizontal Circular Cylinder with Constant Wall Temperature*". At the end of her knowledge-sharing session, a photo shot has been taken of the audience composed of academicians and postgraduate students who attended MMC 2/2023.

Monthly Mathematical Colloquium 2/2023

41:40

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FREE CONVECTION BOUNDARY LAYER FLOW OF BRINKMAN-VISCOELASTIC FLUID OVER A HORIZONTAL CIRCULAR CYLINDER WITH CONSTANT WALL TEMPERATURE




NAME : SITI FARAH HARYATIE MOHD KANAFIAH

MATRIX NO. : PSE20001


SUPERVISOR : PROF. MADYA DR. ABDUL RAHMAN MOHD KASIM

CO-SUPERVISOR : DR. SYAZWANI MOHD ZOKRI (UITM TERENGGANU)

DATE : 17 MARCH 2023




Siti Farah Haryatie (Guest)



24

Participants



Siti Farah Haryatie (Guest)

Monthly Mathematical Colloquium 2/2023

44:02

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PROBLEM STATEMENT

CONVECTIVE BOUNDARY LAYER FLUID FLOW

ISSUE

- The research in the **convective boundary layer** of fluid flow has increased extensively due to many engineering and industrial applications
- The **demand on the complex model** on the study of fluid flow problem has caught the attention of the scholars

PROBLEM

- However, the real fluid exist in industry applications **cannot be presented by the conventional fluid** due to the **complex properties** of the materials.
- Since then, many mathematicians and scientist try to create the model that can be presented those fluids.


MOTIVATION

Brinkman fluid


One of the classic porous medium models applied to incompressible fluid flow with high porosity. (Khan et al. (2019))

Viscoelastic fluid


Fluid which having characteristics viscous and elasticity



Ummu (CU+Shah+M)




Siti Farah Haryatie (Guest)



27

Participants



Siti Farah Haryatie (Guest)

Subsequently, the colloquium continued with the knowledge sharing entitled “*Tips for Research Publication*”, which was delivered by Assoc. Prof. Dr. Abdul Rahman Mohd Kasim. In this talk, Assoc. Prof. Dr Abdul Rahman Mohd Kasim had shared the roadmap and tips for publishing the research article in the indexed Web of Science (WoS) ranked first quartile (Q1) journal. Due to Assoc. Prof. Dr Abdul Rahman Mohd Kasim had a fruitful experience in publishing research articles in indexed WoS-ranked Q1 journals, and the Question and Answer (Q&A) session of his talks has attracted interesting questions from several academicians from PSM. Finally, the knowledge-sharing session of Assoc. Prof. Dr Abdul Rahman Mohd Kasim has been end-up with a photo shot.

Monthly Mathematical Colloquium 2/2023

01:05:51

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Ummah (CI) - QUB+M

ABDUL RAHMAN... SITI ZANAR...
 MUHAMMAD... MOHD ZUL...
 ZULKHAIRI... Participants

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Tips For Research Publication

by:
Abdul Rahman Mohd Kasim

ABDUL RAHMAN BIN MOHD KASIM

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01:08:10

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ABDUL RAHMAN... SITI ZANAR...
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 ZULKHAIRI... Participants

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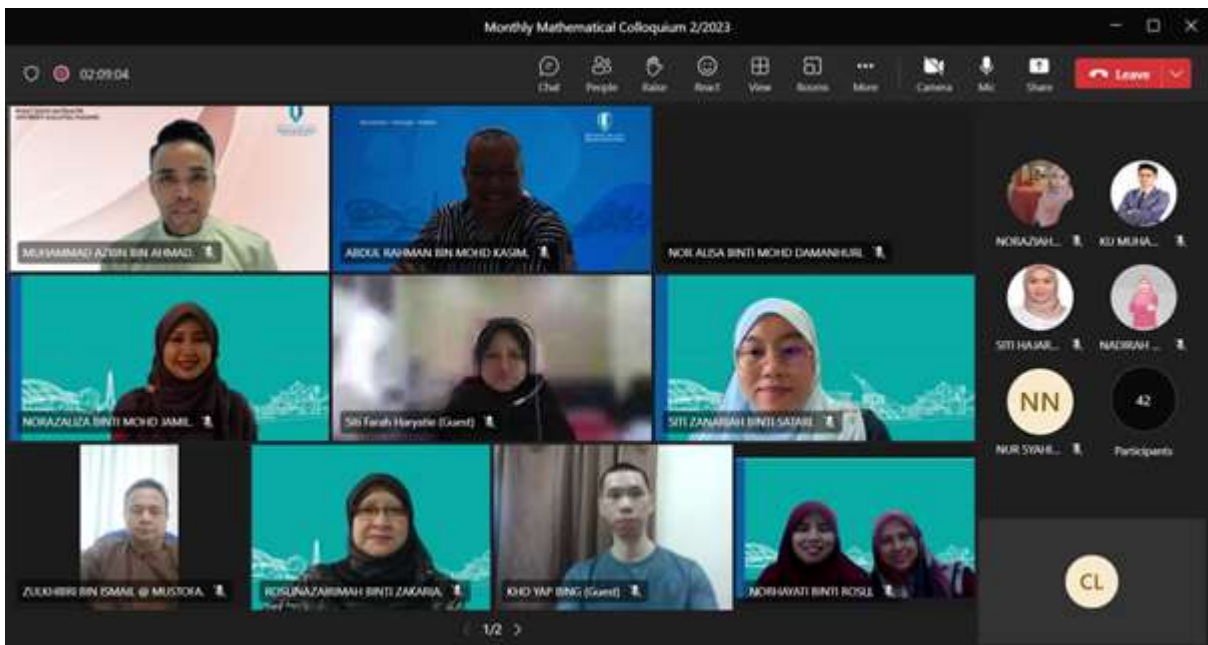
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1. Why should We publish?

- Making the research official
- Get (free!) reviews from the expert in the field
- Make visible = more citations
- Requirement for SKT/P4P (Lecturer)
- Requirement for Thesis submission (Student)
- Career Development- Reviewers, Speaker, Promotion

ABDUL RAHMAN BIN MOHD KASIM

SLIDE | 6



Hereby, PSM would like to take an opportunity to appreciate the knowledge sharing from Siti Farah Haryatie Mohd Kanafiah and Assoc. Prof. Dr Abdul Rahman Mohd Kasim. Furthermore, PSM wishes all audiences able to gain fruitful knowledge in fluid flow modelling and excellent for academic research publications on the career via this colloquium.

Reported by: Dr. Chuan Zun Liang