



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_43500
Title of the Manuscript:	Estimation of the calorific power of a heating element
Type of the Article	Original Research Article

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<p>This is a very confusing paper. The title and part of the discussion Suggests it deals with calorific power of a heating element which Should just be the electrical heating energy deposited in the heater. But elsewhere the authors talk about Determining heat conductivities. So there is some disconnect and The ultimate goal isn't clear.</p> <p>In the model, as articulated in Eq. (3) for instance, it appears that The authors are considering the temperatures within the Water and the container to be isothermal. This certainly isn't the Case.</p> <p>What is the physical meaning of the lambda terms? Are these Masses multiplied by heat capacities?</p> <p>The temperatures measured in Figure 3 are at some specific location They are not volume averages, for instance. This should be made clear To the reader.</p> <p>How is heat loss to the environment handled?</p> <p>So, one is left with the question of what this paper accomplishes. I am sorry to Say not much.</p>	



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<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>John Abraham</b>
Department, University & Country	<b>University of St. Thomas, USA</b>