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| Book Name: | **Proceedings of the 8th International Conference on Solidification and Gravity** |
| Manuscript Number: | **Ms\_BPR\_** **3590.9** |
| Title of the Manuscript: | **Numerical study on the effect of convection on grain growth structure** |
| Type of the Article | **Book chapter** |

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| PART 1: Review Comments | | |
| Compulsory REVISION comments | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | **From my point of view the importance of this manuscript focuses on the contribution on the phase change of a material from solid to liquid, this is an open area of research that helps to know about the variables that influence the structure of materials.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The subject is correct in part, it is necessary to complement it, adding that it refers to grains of metallic materials or alloy materials.** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract is comprehensive, I don’t have any suggest.** |  |
| **Are subsections and structure of the manuscript appropriate?** | **I think it is necessary to modify the structure of the manuscript, I consider that Figure 2, Table 1 and Table 2 can be moved to section 2.2.**  **In the results section, all figures 3 to 11 can be added, which is where the discussion of these figures is made. In conclusions, as few figures as possible should be added.** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **I believe that this manuscript has a technically relevant and scientifically robust subject matter; it is only necessary to structure the information in accordance with the above comment.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **I think is necessary additional references.** |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | The language of this article is suitable for scholarity communications |  |
| Optional/General comments | A recommendation, so that the information is clear, first make the description and then add figures, the figures should go next to the description so that the reader does not get lost looking for the corresponding figure number. Follow the same process as many times as necessary. In the manuscript I was looking for the description of figure 6 and nothing is mentioned. |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **Guillermo Dominguez Librado** |
| Department, University & Country | **Center for Indutrial Enginering and Development (CIDESI), Mexico** |