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| Book Name: | **Proceedings of the 8th International Conference on Solidification and Gravity** |
| Manuscript Number: | **Ms\_BPR\_** **3590.3** |
| Title of the Manuscript:  | **Surface morphology characterization of a dendrite in Al-Ge observed by synchrotron tomoscopy** |
| 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.** | * Important for understanding of the solidification process and microstructural evolution.
* Precise control over phase interaction analysis
* Can further help in the manufacturing processes like casting and welding
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| **Is the title of the article suitable?****(If not please suggest an alternative title)** | * Yes , Accurate
 |  |
| 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. | * Looks good – has relevance and focus on the understanding of growth morphology, general points are covered
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| **Are subsections and structure of the manuscript appropriate?** | * Yes , Accurate
 |  |
| **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.** | * Emphasis on Synchrotron Tomoscopy – key method offering hig resolutions and non destructive imaging. Capable and clear
* Linking to Alloy Properties – Relationship between the dendrite growth and Al-GE alloy is covered
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| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | * Yes, sufficient
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| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | * Yes, scientific language has been used
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| Optional/General comments | * Chapter is offering a comprehensive overview of why characterizing dendritic morphology is scientifically important.
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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: | **Gayatri Pode** |
| Department, University & Country | **USA** |