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### ABSTRACT

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This paper page should be started by the title (14 pt bold), name (12 pt bold) and affiliation, address of each author. An abstract within 400 words should be followed to the title section. In abstract, please state briefly the purpose, method and results of the paper, followed by 5 or more Keywords.

### 1. INTRODUCTION

Please do not exceed 4 pages and 8 MB as an electric file. Paper should be double column, and single-spaced.

You should embed all of figures, tables, and equations in your text. We cannot accept the separated files containing your figures, tables, or equations. You can use colored figures and photographs if you want.

### 2. FORMAT

#### 2.1 Equations

Equations should be written as shown below, which should be numbered in Arabic numerals with parenthesis.

$$\frac{\partial \alpha_g \rho_g}{\partial t} + \frac{\partial \alpha_g \rho_g u_g}{\partial z} = 0 \quad (1)$$

#### 2.2 Figures and Tables

Figures and tables are preferably placed right after their citation in the text. They may be placed collectively at the end of the text. When figures and/or tables have large width, they can be placed in a single column.

Figures and tables should be numbered in Arabic numerals followed by the title, as below.



**Fig. 1** The logo of the Japan Society of Mechanical Engineers



**Fig. 2** The logo of the Atomic Energy Society of Japan

#### 2.3 Fonts

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#### 2.4 References

References should be listed together in alphabetical order at the end of the text. In the main text, the references should be quoted such that "Inoue (2004) found...." or "It was found that .....(Inoue et al., 2004; Suzuki et al., 2006a,

Suzuki et al., 2006b).”

### 3. TRANSMISSION OF DOCUMENT

Authors should submit extended abstract via the FDR website.

### 4. CONCLUSIONS

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### NOMENCLATURE

$A$  area of bubble surface  
 $u$  velocity

### Greek letters

$\alpha$  void fraction

$\rho$  density

### Subscripts

$g$  gas phase  
 $l$  liquid phase

### ACKNOWLEDGMENTS

Acknowledgments are placed here if needed.

### REFERENCES

- Inoue, K., et al., 2004, A study on materials for advanced nuclear reactors, J. Nucl. Mater., Vol. 1, pp. 11-21.  
Suzuki, A., 2006a, Review of recent reserches in Japan, JAEA-Reserach 2006-001.  
Suzuki, A., 2006b, Review of recent reserches on nuclear engineering, JAEA-Reserach 2006-002.