**2022 Japan-U.S. seminar on Two-Phase flow Dynamics:**

**Instructions to Authors for Typing THEIR MANUSCRIPTS**

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**ABSTRACT**

Detailed instructions for typing your article are given in the following. Please remember the following points in particular: a) type the body of the paper in double column, inside the prescribed margins (see Fig. 1 in the back); do not print any border around the text; b) use **9 pt Times New Roman** font or equivalent to type up to 200 word abstract in this box, single column; c) use **10 pt Times New Roman** font or equivalent and single spaced lines for the main text; d) list references in numerical order of appearance; e) supply good quality figures, tables and photographs pasting them directly on the paper; f) list all the used variables (together with their units) in a nomenclature section at the end of the paper if a large number of variables are used; g) the use of SI units is mandatory; h) advised paper length is around **6 pages**; i) upload the PDF file of your **final** manuscript onto *https://usjapanseminar.engin.umich.edu/summary-submission/*, not later than March 31, 2022. Please contact X. Sun xdsun@umich.edu for questions/suggestions.

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# 2. PAPER TYPING, LENGTH AND ORGANIZATION

## 2.1. Typing

Type or print your manuscript in **Letter-size** or also in 8.5”x11” paper (**No A4 paper size please**). The text must be arranged in in two columns, spaced of 8 mm (0.32 inch), with margins of 12 mm (0.5 inch) on each side (top, bottom, left and right) in a box of 254x190 mm. Do not leave extra margins. Do not print any box margin outside the text.

Type the text single-spaced, justified. Times New Roman (or an equivalent typeface) is preferred. A typeface of 10 point should be used for the text.

Indent first line of each paragraph 4 mm (0.16 inch), and do not leave extra space between paragraphs.

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## 2.2. Length

The advised length of the paper, including figures and tables, is around ***6 camera ready pages***. Please limit your writing concisely, not by reducing the figures to a size at which their labels would be difficult to read.

## 2.3. Paper title and authors

The first page of each paper is to contain the title of the paper, the author's (authors') name(s) and affiliation(s) within the title box.

a) Begin typing the title at the top of the title box on the first page. Type the title centered, 12 pt Times New Roman (or an equivalent typeface) boldface, in all capital letters with a single line spacing. All lines (run-over lines of a long title) should be centered.

Skip one line between the title and the authors.

b) Type the name(s) of the author(s) centered under the title, 10 pt Times New Roman (or an equivalent typeface), in upper and lower case letters.

Skip one line between the authors and their affiliation(s).

Type affiliation(s) 10 pt, in upper and lower case letters, single line spacing. You may want to include email address for the author(s).

## 2.4. Abstract

Begin your abstract (200 words maximum) at the top of abstract box on the first page. The ABSTRACT heading must be typed 10 pt Times New Roman (or equivalent) boldface in all capitals. It should be flush left with the left dotted margin.

Type the abstract single column, filling the abstract box. A smaller (9 pt) font is preferable. Skip one line between the ABSTRACT heading and the text.

## 2.5. Succeeding pages

The first line of the text on all pages after the first (title page) is to start below top margin.

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Use only two values of internal subheadings:

(a) Type *first-value heads* in all capital letters, boldface, flush with the left hand margin of the column. Put them on a separate line separated from the text, leaving 12 pt spacing both above and below (For the first *first-value head* in the text, such as “**SUBMISSION AND PUBLICATION**” on page 1, leave 12 pt spacing only below it).

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The heater tube. This device is used as the electrical resistance for providing heat input. D.C. voltage is …

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(l) Equations must be typed. Allow one line of space above and below. Number displayed equations consecutively from Eq. (1) to the end of the paper. As shown in Eq. (1), enclose equations numbers in round parentheses and place them flush-right in the column.

 (1)

When referring to an equation in the text write "Eq. (1)", except at beginning of a sentence, where "Equation (1)" should be used.

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(3) Decimals should always be shown by full stops rather than by commas or centred dots.

(4) All data (including the ones in tables and figures) must be reported in SI units.

(5) When used with numerals, units should be abbreviated (full stops are not used with abbreviations); units should *not* be italicized to ease the distinction from symbols. If units are used in general terms with no specific numerals, they should be spelled out; e.g., “the SI unit for mass is kilogram” (not “the SI unit for mass is kg”).

(6) Several units written together should be separated by a thin space, not a centered dot, e.g.: 10 Pa s, 5 W/(m2 K).

# 4. TABLES AND FIGURES

(l) Brief and descriptively title each table and caption each figure. Place table title above the table; place figure caption below the figure. Text and symbols must be clearly readable, avoid small symbols.

(2) Refer to each table and figure in the text. If possible, place tables and figures in the order mentioned in the text, at top or bottom of the page, as close as possible to text reference.

(3) Allow one line of space between the table title and the table (or between the figure and its caption). Allow one line of space between the table or figure and the adjacent text above and below.

(4) In general, tables and figures should not repeat data available elsewhere in the paper.

1. Number figure and tables separately and consecutively with single Arabic numerals (e.g., Figure (or Fig.) 1, Figure 2, Table 1, Table 2.

## 4.1. Tables

(l) If too wide to fit on the page, a table may be placed crossing two columns.

(2) Table footnotes should be identified by superscript lower case letters and placed at the bottom of the table.

## 4.2. Figures

(1) High-quality reproduction of illustrations depends on the condition of the original artwork. It should be prepared as carefully as the text. All figures should be clear, sharp, and of high quality.

(2) Label with a standard mechanical set or with the same typewriter used for the text. Indicate coordinate values by tick marks along the coordinate axes. Rule the coordinate axes and ticks in fine line weight; draw the graph in heavy line weight. Tick marks on four sides of each graph are requested.

1. To denote the ordinates, a verbal description may be used:

HEAT TRANSFER COEFFICIENT / (W/(K m2))

 Alternatively, the symbol may be used:

*h* [W/(K m2)]

# Nomenclature (NOT Numbered)

A nomenclature should be included here if an extensive number of variables are used in the paper.

*h* heat transfer coefficient, W/(m2 K)

*k* thermal conductivity, W/(m K)

*m* mass, kg

# ACKNOWLEDGEMENTS (NOT Numbered)

Any acknowledgements should be included here.

# REFERENCES (Not numbered)

References to cited literature should be identified in the text in square brackets and grouped at the end of the paper in numerical order of appearance. References should be styled and punctuated according to the following examples: journal article [1], book [2], thesis [3], report [4], proceedings [5], and edited book [6].

1. M.E. Braaten and W. Shyy, Study of Pressure Correction Methods with Multigrid for Viscous Flow Calculations in Nonorthogonal Curvilinear Coordinates, *Numer. Heat Transfer,* **11**, pp. 417-442, 1987.

2. Y. Jaluria and K.E. Torrance, *Computational Heat Transfer*, Hemisphere, Washington, D.C., 1986.

3. C. Graham, The Limiting Heat Transfer Mechanism of Dropwise Condensation, Ph.D. thesis, Massachusetts Institute of Technology, Cambridge, MA, 1969.

4. E. Book and H. Bratman, Using Compilers to Build Compilers, Systems Development Corp. Rept. SP-176, Santa Monica, CA, Aug. 1960.

5. S.L. Soo, Boundary Layer Motion of a Gas-Solid Suspension, *Proc. Symp. Interaction between Fluids and Particles*, **1**, pp. 50-63, 1962.

6. W.B. Thompson, Kinetic Theory of Plasma, in M.N. Rosenbluth (ed.), *Advanced Plasma Theory*, Ch. 1, Academic Press, New York, 1964.

Always give inclusive page numbers for references to journal articles and a page or chapter number for books. Each reference must be cited in the text.

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In the following, some advices are given for the final check on your manuscript in order to avoid the most common sources of errors.

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# ASSISTANCE

For any question/comment concerning typing and organization of the paper, please contact:

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Japan-U.S. Seminar on Two-Phase Flow Dynamics

##### Virtual Meeting May 8-11, 2022

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