

# Instructions for Preparation of Camera Ready Manuscripts

*Conference  
Proceedings*

Page Size (7 x 10 inch)  
Double Column Format

**Shock Compression of Condensed Matter**

Conference in Portland, Oregon, July 2003

**AIP**

American Institute of Physics  
March 2003

## **CHECK LIST FOR AUTHORS SUBMITTING PAPERS FOR AIP CONFERENCE PROCEEDINGS PUBLICATION**

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Acceptable formats are: MS Word, Framemaker, or LaTeX;  
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  - Is your manuscript single spaced?
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- Enclose all original halftones (gray-scales).
  
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- PAGE LIMITS (*These are firm*):
  - 4 pages (contributed papers)
  - 6 pages (invited papers)
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## GENERAL INFORMATION

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In order for AIP to provide the fastest possible publication, each author will type his/her manuscript and lay it out into pages with art/tables in place. The book will be produced directly from these pages (camera-ready copy) or from the files supplied by the author. Please check over your manuscript carefully and thoroughly proofread it before submission. **Remember, the way you submit your manuscript to the publisher is the way you will see it in print.**

Below is a list of guidelines to follow when preparing your camera-ready pages or files for submission. Please try to follow these instructions as best as possible and keep to the indicated format described below and as shown on the sample layout on pp. 7 and 8 of this manual. **If you do not have the specified point sizes or typefaces indicated in this manual, please use the closest that is available to you.**

You are the **typesetter**, the **page layout specialist**, the **illustrator**, the **proofreader**, and the **quality control expert**. Each function is important; none can be skipped.

As the **typesetter** you use typefaces and space to organize your document so a reader can better understand the content. Keep your design simple so the reader will focus on the content and not on the format.

As the **page layout specialist** you integrate text with art and tables so the reader can refer to cited material. You align facing pages (spreads) and make your manuscript look like a book.

As the **illustrator** you create the artwork that helps explain the concepts in your text. Your art must be properly scaled so it integrates with the text, and it must be positioned so that the reader can easily refer to the illustration while reading the corresponding text.

As the **proofreader** you check that words are properly spelled and hyphenated, that no material is missing or duplicated, and that the technical information (especially mathematical equations and tabular material) is correct as set.

As the **quality control expert** you look at each laser printed page to check that the camera-ready page has printed clean and sharp and with the proper ink density.

### ◆ **Format (The page size of the printed book is 7x10 inches)** ◆

Stationery: use either A4 paper or U.S. 8.5 x 11 inch paper; leave a margin of about 1 inch (2.5 cm) on top and on left side and format the text according to the following text area specifications:

A double-column format is used; the overall text area (over both columns) is:

15.9 cm wide x 20.3 cm long *or* 6-<sup>1</sup>/<sub>4</sub> inches wide x 8 inches long *or* 38 picas wide x 48 picas long.

The camera-ready copy should be prepared in 2 columns. The spacing between columns is <sup>7</sup>/<sub>16</sub> inch or 1.1 cm. It is important to follow the above specifications when determining your page size. Pages will be reproduced at 100% (exact size) in the printing process, so the text area noted above must be exact. In order to help guide you with the specified text area, enclosed is an acetate overlay (with the dimensions ruled out) to be used as a guide to the layout of your final manuscript.

AIP will typeset the page numbers (there will be no running heads). **Do not type page numbers on the manuscript.** To help keep pages in order, write in page numbers on the bottom right hand corner well outside the page area in light blue pencil. If possible, use a non-reproducible blue pencil. Do **not** leave extra space in the text area for the page number. AIP will insert the page number below the last line of text. Again, in order to ensure that your paper will reproduce clearly and in consistent size and format, **please make sure the page dimensions are followed exactly.**

The manuscript should be single-spaced, with an extra half space above a line containing superscripts and below a line containing subscripts. **Font type: Times Roman; text point size: 10 pt.** Text type should be justified (aligned right and left in type area). See sample layout.

Print your manuscript on good quality paper and **on one side of the page only.** Use a printer with a resolution of at least 300 dpi. The output of lesser quality printers, such as dot matrix, is not acceptable because it does not reproduce legibly.

◆ **Title Page** ◆

Include the full title of the paper, authors' names, and complete addresses (including postal codes), with each author's affiliation clearly indicated. **Drop 3/4 inch (= 2.0 cm) from the top and center the manuscript title;** drop 1 line space and center the authors' names, drop 1 line space and center the addresses; drop 1 line space and type abstract; and drop 2 line spaces and begin abstract. All of the above should be centered across both columns. See sample layout on page 7.

*Paper Title*

14 pt Times Roman, **BOLD, ALL CAPS**, centered.

*Paper Author*

12 pt Times Roman, **Bold Cap/lowercase**, centered.

*Author Affiliation*

10 pt Times Roman *Italic, Cap/lowercase*, centered.

◆ **Abstract** ◆

Begin with the boldfaced word "Abstract." Indent 2 spaces (0.25 inches or 6 mm) from the left and right margins. Set the abstract in 10 pt Times Roman, justified. Drop 2 line spaces to heading or text.

◆ **Headings** ◆

Format the headings in your paper according to the sample layout on pp. 7 and 8. Leave 2 lines of space above the heading and 1 line of space below.

*First-Level Heading*

10 pt Times Roman, **BOLD, ALL CAPS**, centered.

*Second-Level Heading*

10 pt Times Roman, **Bold, Cap/lowercase**, centered.

*Third-Level Heading*

10 pt Times Roman, *Italic, Cap/lowercase*, centered.

◆ **Equations** ◆

Make your equations clear and legible, centered, with a space above and below. Equations should be the same point size as the text.

Place each equation on a separate line and number equations sequentially. Enclose the equation number in parentheses, and place it flush with the right-hand margin. Equation (1) is an example of a one-line equation.

$$\frac{d[F_1]}{d\varpi_2} = SAm_2 \cos \omega, \quad \frac{d[F_1]}{d\varpi_3} = SAm_3 \cos \omega. \quad (1)$$

Equation (2) shows how to format a two-line equation.

$$\begin{aligned} \frac{d^2\xi}{dt^2} - 2n \frac{d\eta}{dt} &= \frac{dV}{d\xi} + n^2\xi, \\ \frac{d^2\eta}{dt^2} - 2n \frac{d\xi}{dt} &= \frac{dV}{d\eta} + n^2\eta. \end{aligned} \quad (2)$$

### ◆ Footnotes ◆

Footnotes appear at the bottom of the page where they are cited, numbered in 8 pt type. Place a line the width of the column above the footnote. There should be 1/4 inch (6 mm) space above the line and 1/8 inch (3 mm) space below the line to the footnote.

### ◆ Symbols, Units, and Acronyms ◆

Refer to the American Institute of Physics (AIP) Style Manual, Fourth Edition (1990), for standard symbols and unit abbreviations (see p. 6). We suggest that you use the International System of Units (SI units). Define any acronyms the first time you use them, in a parenthetical description following the acronym.

### ◆ Tables ◆

Type tables in 9 pt Times Roman. Number tables sequentially in the text. Table footnotes are the same point size as the text. Set table column heads in **Bold, Cap/lowercase**. Tables should be typed within the text at the top or bottom of the page, close to where they are first cited. **Do not** reduce tables that are wider than the column. Instead, place wider tables across two columns. Be sure that the data is concisely presented and that any abbreviations used are defined.

Table number/table title head is left-aligned above the table. The word “**TABLE**” and the number should be in Times Roman **BOLD, CAPS** and punctuated with a period; type the table title in Times Roman, Cap/lowercase. Table titles should clearly express the content of the table. Table 1 (see sample page 8) illustrates correct formatting for a table. Tables should be centered by the page width or placed in a column.

*Wide Tables:* If a table is wider than two columns, turn the table on the page (broadside) so the top of the table is on the left side of the page. Do not add text to a page containing a broadside table.

### ◆ Figures ◆

For both line drawings and photographs, the legibility of the illustrations is vital. Clearly label your artwork and number them consecutively. Cite all illustrations in the text consecutively. The word "Figure" should be spelled out if it is the first word of the sentence and abbreviated as "Fig." elsewhere in the text. **Place the figures as close as possible to their first mention in the text at the top or bottom of the page** with the figure caption positioned below. Preferably, figures fit within a single column. If they are wider, follow the arrangement described above for tables.

Line art (figures with *solid* black and white areas) should be inserted into the camera-ready pages by either pasting the figures onto the page or by printing along with text. This will allow you to see what the final product will look like, and to have nearly complete control over the quality of your work. Photocopies of photographs or continuous-tone figures (i.e., any figures with “gray” areas) should be inserted into the camera-ready pages *for positional information only*. High quality photographs (or continuous-tone figures) should be sent along with the camera-ready manuscript as part of the final submitted manuscript. Provide color originals for those figures to be reproduced in color. Provide black and white figures for those that should appear in black-and-white. Color figures will not be printed in color without prior explicit arrangement with AIP. Some color figures can be printed in black and white, but generally only with some loss of information. Please contact Michael Furnish (505-844-2877), Topical Group Publications Chair, for further information.

## ◆ Figure Captions ◆

Set captions in 9 pt Times Roman. Number figures with arabic numerals, and type the caption below the space for the figure. Type the word “**FIGURE 1**” in **BOLD CAPS**, followed by a period, then set the legend in Times Roman, cap/lowercase. Each illustration must include a caption that clearly and succinctly explains its content. Illustrations are consecutively numbered in the text. Position the caption 1/4 inch (6 mm) below the illustration. The caption should be the full width of a single column or double column depending on the size of the figure.

## ◆ Acknowledgments ◆

Acknowledgments should be positioned at the end of the manuscript before the reference section. Set the word “**ACKNOWLEDGMENTS**” as a first-level heading (10 pt).

## ◆ References ◆

When referring to citations in the text, in parentheses show the number in order of appearance. In the reference section, set the word “**REFERENCES**” as a first-level heading (10 pt) The references themselves should be in 9 pt type. List all references in numerical order. *Do not space between entries.* See examples here and on the last page of this booklet.

**1. For a reference to a book:** Last name(s) and initial(s) of authors or editors, *book title* (in italics), publisher, place of publication, year, chapter or inclusive page numbers.

Examples:

Austin, K., and Brown, M. P., *The New Physique*, Publisher, Los Angeles, 2002, pp. 25–30.

Wang, R. T., “Title of the Paper,” in *Classic Physiques*, edited by R. B. Hamil, Publisher, New York, 2002, pp. 212–213.

**2. For a reference to a journal:** Last name(s) and initial(s) of authors, *name of journal* (in italics), **vol. number** (bold), inclusive page numbers, year in parentheses.

Example:

Brown, M. P., and Austin, K., *Appl. Phys. Letters* **80**, 2503–2504 (2002).

**3. For a paper presented and published in a proceedings:** Last name(s) and initial(s) of authors, “Title of Paper,” in *Title of Proceedings* (in italics), edited by editor name, publisher and series number, place of publication, year, inclusive page numbers.

Example:

Smith, C. D., and Jones, E. F., “Load-Cycling in Cubic Press,” in *Shock Compression of Condensed Matter-2001*, edited by M. D. Furnish et al., AIP Conference Proceedings 620, Melville, New York, 2002, pp. 651–654.

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Sandia National Laboratories	E-mail: <a href="mailto:mdfurni@sandia.gov">mdfurni@sandia.gov</a>
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- You may also address questions, especially regarding color art, format, style, copyright, and any forms included here to:

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# PHYSICS AND BIOLOGY IN TODAY'S SOCIETY

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<sup>5</sup>*Physics Division, Bldg. 203-Rm. C-258, Argonne National Laboratory, 9700 South Cass Ave., Argonne, IL 60439*

**Abstract.** Tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat.

## INTRODUCTION

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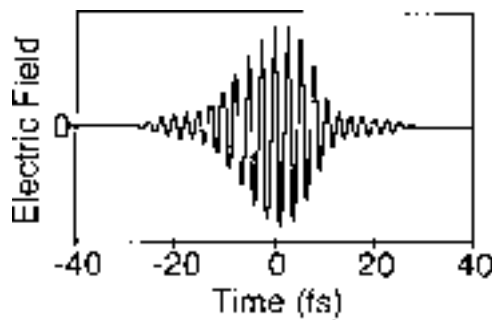
## EXPERIMENTS AND RESULTS

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### Applications to Some Metal Phases

*Metallic and Diatomic Phases*

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**FIGURE 1.** This is a sample of a figure caption. Lorem ipsum dolor sit amet.

<b>TABLE 1.</b> This Is an Example of a Table Caption					
<b>Mode of energy</b>	<b>Time</b>	<b>Begin<sup>a</sup></b>	<b>Example</b>	<b>Distance</b>	<b>End</b>
Example of speed	27	69	12	33	46
Time of encounter	16	27	69	11	16
Basis for test	17	28	17	12	0
Mode of discovery	20	46	19	28	17

<sup>a</sup>This is an example of a table footnote.

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*Yield Stress as a Function of Pressure*

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**DISCUSSIONS AND CONCLUSIONS**

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