

ANNOUNCEMENT AND GUIDELINES

2007 Student Paper Contest IEEE Philadelphia Section

Purpose

The Student Paper Contest offers the undergraduate IEEE Student Member an opportunity to exercise and improve written communication skills and to win a cash prize. Throughout their careers, engineers are constantly called upon to communicate ideas to others in writing. Researching and writing a paper provides an engineering student with practical experience in expressing concepts and ideas, and should be encouraged at every opportunity.

Schedule

Mail **seven** copies of your paper to Mr. Jeffrey Douglas, Chair of the Philadelphia Chapter of the IEEE Professional Communication Society, at the address below. Entries should be received before 8:00 p.m., Wednesday, 14 March 2007. Please allow sufficient time for the mail service to deliver your entry.

Mr. Jeffrey Douglas	Phone: 856-722-3288
291 Creek Rd	E-Mail: jeffrey.n.douglas@ieee.org
Mt. Laurel NJ 08054-2101	

Judging of papers is to be completed by Monday, 26 March 2007, at which time the Branch Counselors will be notified of the winners.

The first, second and third place prizes, along with suitably inscribed certificates, will be presented to the winning entrants at the IEEE Student Night on Tuesday, 10 April 2007. On this occasion, each of the three winners will be asked to present a short summary of his or her paper.

Eligibility

1. The entrant must be an undergraduate (freshman through senior) at a college or university with an IEEE Student Branch in the Philadelphia Section at the time of entry.
2. The entrant must either be a Student Member or have completed and submitted his/her application for membership at the time of entering the contest.
3. An entrant may collaborate with additional students, all of whom should meet the above requirements.

Number of Entries

1. Any eligible student may enter the paper contest. A limit of four papers per Student Branch may be submitted.
2. A paper must be endorsed by signature of the respective Student Branch Counselor on the Cover Page. In case the Branch Counselor is unavailable, the Chair of the Electrical Engineering Department may endorse the paper.

Prizes

The IEEE Professional Communication Society and IEEE Philadelphia Section will provide a total of \$540 prize money for the Philadelphia Section contest. This money will be allocated as follows:

First Place - \$240

Second Place - \$180

Third Place - \$120

The Student Branch represented by the author of the first-place paper will receive a duly inscribed plaque.

Co-authors will share equally in the allocation of cash awards.

The paper with the highest rating from each Student Branch will, with the author's approval, be forwarded to the Regional Student Prize Paper Contest, to be held this year at the Region 2 Student Activities Conference, hosted by University of Cincinnati, Cincinnati, OH, www.uc.edu from 13-15 April 2007. Reasonable expenses incurred in attending this contest will be covered by the IEEE.

See http://www.ieee.uc.edu/main/event_sac.php and http://www.ieee.uc.edu/main/files/sac2007/pc_rules.pdf for details.

Subject Matter

1. Papers should cover technical or societal aspects of engineering, reasonably within or related to the areas with which the author is familiar from courses, hobbies, summer work, or other similar experience.
2. The work need not be original in content, since the primary function of the student paper contest is to exercise the student's written communication skills. The work should, however, be original in treatment and concise in coverage of the author's contribution to the subject.

Written Preparation

The following is a basic list of the major parts of a suitable paper.

1. Cover page (use the format given in Appendix A). The cover page will be removed before the paper is transmitted to the judges. Attachment of the cover page with a paper clip is preferred. A single copy of the cover page is sufficient. A separate cover page is not needed for each copy of the paper submitted.

See Appendix B for more detail on the following parts of the paper.

2. Title Page (**The names of the authors and their schools must not appear on this or any subsequent page.**)
3. Table of Contents

4. Abstract Page
5. Introduction.
6. Body of paper.
7. Conclusions and Recommendations.
8. Appendices.
9. References/Bibliography.

The paper should be composed and printed in 12-point font, double-spaced, on one side of 8-1/2" by 11" paper. Legible photocopies are acceptable. The pages of the paper must be numbered consecutively. An equation or symbol that cannot be typed may be handwritten. The Introduction, Body, Conclusion, Tables, and Illustrations together may not exceed 15 pages, while these sections with Appendices may not exceed 20 pages.

Judging

Papers will be evaluated and judged on the basis of 11 equally weighted judging criteria. Please refer to the "Judging and Score Sheet," included as Appendix C. Note that almost 65% of the score is related to the student's writing skills--underscoring the paper's primary function: to exercise the engineering student's abilities to communicate in writing.

APPENDIX A

Cover Page

<Name and Mailing Address of College>

<TITLE OF PAPER>

<Student's Name>
<Student's Current Mailing Address>
<Student's E-Mail Address>

<Student IEEE Membership Number>

Submitted for consideration in the
2007 Student Paper Contest
IEEE Philadelphia Section

Endorsement of Branch Counselor:

E-Mail and Telephone Number of Branch Counselor:

The author(s) of this paper are Student Members of the IEEE Student Branch of the above named school, and will still be undergraduate students on March 21.

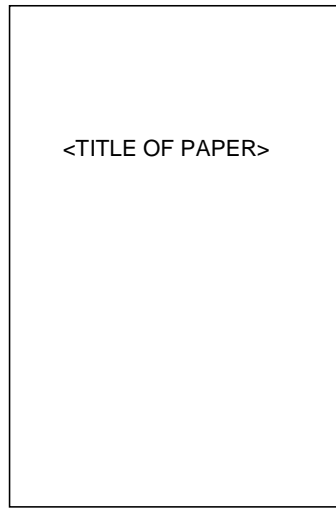
Signature(s) of Author(s): _____

Typed Name(s):

Date:

This flyleaf will be removed prior to judging. Do not use a page number for this page.

APPENDIX B



Title Page

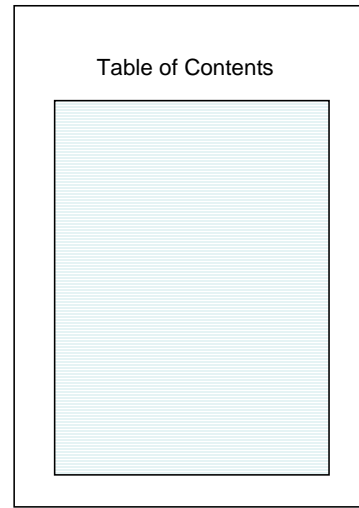
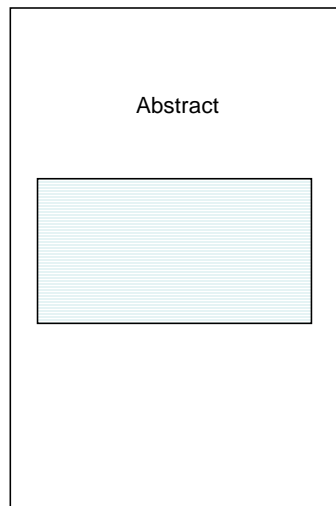
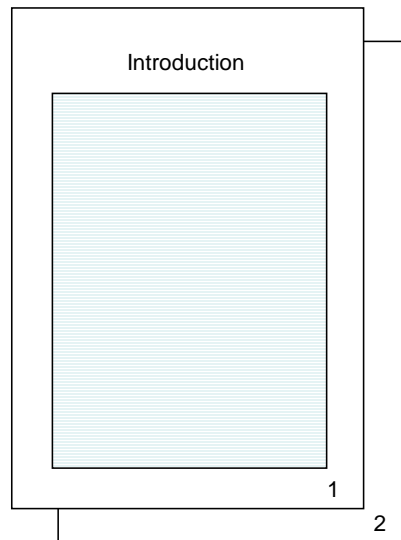


Table of Contents



Abstract Page



Intro, Body, etc.
*(Not necessary to start each
part on a new page)*

Start paper. Be sure that none of these pages (including References) contain the student's name or college affiliation. Also be sure that the COVER page with affiliations, etc. (Appendix A), can be removed prior to distribution to the judges.

Since some papers will be submitted to the Region 2 contest, the Region 2 content organization guidelines are presented below and should be followed.

- (1) Removable flyleaf page: Since the judges must handle the papers without knowledge of the identity of the author or his school, it is required that the paper itself show no identification other than the title. The title, name of the author, school and Branch Counselor's name, author's IEEE member number, and his current address must be shown on a flyleaf which can be removed.
- (2) Title page: On the title page, only the title of the paper should appear. The title should consist of the minimum number of key words necessary to portray accurately the contents of the paper. Reader interest is stimulated by a well-chosen title. The author's name should NOT appear on the title page, nor should any other persons or schools.
- (3) Table of Contents: The table of contents should consist of a list of the parts of the paper and the page numbers, in order in which they occur.
- (4) Abstract: The abstract should not describe the paper, but should give, in brief, the essential facts of its contents; for example, a brief of the problem or objective and a concise summary of the results or conclusion, touching upon methods or other details only if they are unique or if they are of some particular significance. The abstract should be no longer than 100 words.
- (5) Introduction: The introductions should lead to the development of the subject so that the reader may obtain a clear understanding of the significance of the paper or article prepared. This can often be done by briefly giving the state of the art as background and then by bringing out the added advantages of the method of approach and emphasizing the importance of the results or conclusions.
- (6) Body: To assist the judges in maintaining objectivity, all mention of the author's name and school should be restricted to a single introductory page. Thus, no mention of the author's name or school should be made in the article. Any references to the author's school should read "the university" without giving the actual name. The main argument of the subject is carried out in the body of the paper, complete with supporting data. The argument should proceed in a logical sequence according to a prepared outline. The writing should be in the third person. Support data and results can be presented most effectively as curves, charts, or tables.

Standard graphical symbols and abbreviations should be used on all drawings. (Ref. "Graphic Symbols for Electrical and Electronic Diagrams," IEEE STD 315.) Well known abbreviations may be used in the text but should be defined where used the first time followed by the abbreviation in parentheses. Generally the use of abbreviations should be confined to tables and illustrations. Illustrations and tables should supplement, not duplicate, text materials; likewise, they should complement, not duplicate each other.
- (7) Conclusion: The conclusion is often considered the most important part of a paper. It should be stated concisely in a separate section at the end of the paper. If there are three or more conclusions, better emphasis can be obtained by numbering each conclusion and setting it off in a separate paragraph.
- (8) Tables: Generally, each table should be typed on a separate sheet and numbered consecutively using Roman numerals: Table I, Table II. Small tabulations or listings may be made in the text where necessary for continuity. Each table should be titled by giving the brief description as a heading following the table number at the top. Ditto marks should not be used in tables, but brackets may be used to group information on several lines.
- (9) Figures: Figures should be numbered consecutively using Arabic numerals: Figure 1; Figure 2, etc. Three types of figures may be used: photographs, oscillograms, and line drawings. The reading material on illustrations should be kept to a minimum. In short, the reading material should be included in the captions. Portions of the illustrations may be identified by letters and explained in the captions. Whenever feasible, several curves should be combined on the same coordinates. Their identifying letters or numbers should be in clear spaces between cross section lines. Readers generally prefer having the figures distributed through the article, although it is also permissible to bind them together at the end.

- (10) Appendices: Detailed mathematical proofs, development of equations and examples which are subordinate to the main argument in the body of the paper, but not essential to following the argument, should be treated in the appendices. Main equations as they are developed should be numbered consecutively, with the number in the right margin. The equations, figures, and tables in the Appendices should be numbered consecutively following the numbers used for the equations, figures, and tables in the text (such as, if table IV were last in the text, table V would be first in the Appendices.)
- (11) References: To enable the reader to consult important works used by the author incidental to the preparation of his manuscript and other related literature which might be helpful, a suitable reference list should be appended. References should be numbered consecutively and should follow the form shown below:

For a periodical: R.N. Hall, "Power Rectifiers and transformers," Proc. IRE, Vol. 40, pp. 1515-1518, November 1952.

For a book: W.A. Edison, "Vacuum Tube Oscillators," John Wiley and Sons, Inc., New York, New York, pp. 170-171, 1948.

For an article: B. Lawrence, B.H. Weil, and M.H. Graham, "Making online search available in a industrial research environment," Journal of the American Society for Information Science, pp. 364-369, Nov-Dec. 1974.

APPENDIX C

IEEE Student Paper Contest Judging and Score Sheet

Paper Title: _____.

Writing Skills	Min					Max				
1. Concise and informative abstract.	1	2	3	4	5	_____				
2. Adequacy of Introduction.	1	2	3	4	5	_____				
3. Logical development and analytical treatment in the body.	1	2	3	4	5	_____				
4. Adequacy of Conclusion.	1	2	3	4	5	_____				
5. Compliance with paper contest rules as stated in the Contest Announcement.	1	2	3	4	5	_____				
6. Clarity and directness in exposition.	1	2	3	4	5	_____				
7. Grammar, spelling, style and choice of words.	1	2	3	4	5	_____				

Subject Matter	Min					Max				
8. Originality of ideas, experimental procedures, processes, hardware/software design, results, or conclusions due primarily to this author.	1	2	3	4	5	_____				
9. Originality of analysis, interpretation or restatement or inference based upon the work of others. (If the paper and its contents are entirely the work of the author, enter the score from No. 8.)	1	2	3	4	5	_____				
10. Quality and level of technical, social or management content. Appropriateness, interest and importance.	1	2	3	4	5	_____				
11. Factual and technical accuracy.	1	2	3	4	5	_____				

Signature of Judge _____ Total Score _____