

# Guide for Authors



## AHS FORUM 66

“Rising to New Heights in  
Vertical Lift Technology”

Phoenix Convention Center

Phoenix, Arizona

May 11-13, 2010

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Visit the AHS Web Site for the most current information regarding all aspects of the AHS including the Society's staff, the Forum, Technical Committees, Specialists' Conferences, AHS Awards, etc.

<http://www.vtol.org>

# Overview

The information in this package will help you prepare your paper. It is important that you review it carefully and submit the proper materials in accordance with the instructions and deadlines listed. Please note that guidance materials for your presentation at the Forum are at the end of this document. Your presentation at the Forum will be done electronically; Microsoft PowerPoint and Adobe Acrobat will be the only allowable file formats.

*Please Note: Paper length is limited to 30 pages.*

## A. Important Dates to Remember

**Sunday, January 24, 2010 - Wednesday, March 24, 2010** -- The Mira web site is open for submittals.

- Your paper must be submitted via the Mira/AHS web site by **March 24, 2010**. The URL for the Mira/AHS web site is <http://www.miracd.com/AHS2010/>
- Your "Assignment of Copyright" form must be completed and received at AHS International Headquarters by **March 24, 2010** (fax to 703-739-9279 or mail it to AHS International, 217 N. Washington St., Alexandria, VA 22314-2538).
- Your "Annual Forum Speaker Form" must be received by your session chair(s) and AHS International Headquarters by **March 24, 2010**.

In order to be eligible for the AHS Best Forum Paper Award you must submit a copy of your paper to the Mira web site by **March 24, 2010**.

*Please Note:* Papers submitted after the deadline will not be included in the proceedings. In some cases, late papers can be accommodated but must be submitted to AHS Headquarters ([staff@vtol.org](mailto:staff@vtol.org)) in a .pdf format by **April 16, 2010** or their paper will be officially withdrawn and they will not be able to make a presentation at the Forum. There is a \$50.00 late fee required for speakers submitting late papers to underwrite the costs of creating a supplemental CD.

**Thursday, April 8, 2010** – **Forum 66 Hotel Reservation forms** must be received by this date to obtain discounted Forum rates. We recommend making your hotel reservations as soon as possible. You may register on-line by pointing your browser to <http://www.vtol.org/66housing.html>. The number of Government Rate rooms is very limited, so government personnel should book early.

**Friday, April 23, 2010** – **Deadline for Forum 66 registration** in order to take advantage of early-bird registration rates. We request that you register as soon as possible. On-line registration will be available at our web site at <http://www.vtol.org> by clicking on the Forum link.

## **B. General Guidelines**

Note: Even though the document which authors create may exist only in electronic format and never actually be printed on paper, in these guidelines it will still be referred to as a "paper." The word "printed" should be interpreted as how the image of the document will look on either an electronic display or a piece of paper.

### **B1. Hints for Paper Preparation**

When preparing your paper: Write it ... THEN format it.

Write the paper being fully aware of ultimately required formatting ... but don't spend unwarranted time formatting and reformatting as you are writing and rewriting.

Look at your final paper on someone else's computer screen.

Be sure it looks the way you want it to look.

Print your final paper from someone else's computer on a black & white printer.

Be sure it looks the way you want someone else to see it.

Before you come to the Forum, be sure to look at your presentation using an LCD projector. What looks good on a computer screen may not be readable when projected.

#### **Paper Format and Page Layout**

The appearance of your final paper (its format and layout) is very, very important for many reasons. However, your first task should be to write the words and create the graphics for your paper. Once the paper has been written (and probably rewritten a few times) then work on the formatting. Write the paper being fully aware of the ultimate formatting requirements, but don't spend an inordinate amount of time on formatting until your paper is very near to its final content. This approach should save you time in the long run.

Requirements and guidelines for the overall format for the paper and the layout of pages are described in Section C (Detailed Guidelines).

You may use color in the electronic version of your paper (i.e., in the file which will be included on the CD-ROM of the Proceedings). However, the printed versions of the Proceedings will be produced in black ink only. Be sure to print a black and white copy of your final paper to ensure that all graphics and photos are readable.

### **B2. Clearance for Publication and Presentation**

Your paper and presentation must be cleared by your organization or agency prior to submission for publication and presentation. It is the author's responsibility to determine and acquire the appropriate types and levels of clearances -- internal and external -- for the paper to be published and presented. For example, in the U.S., clearance typically includes vetting through a public release approval process for Government personnel and company approval for public release of internally-generated material for others. Obtaining such clearance may take time -- particularly if your paper has authors from more than one organization. In order to avoid surprises, it

is suggested that you immediately initiate the action to get guidance from your organization (and that of the organizations of your co-authors, if any) on the steps that must be accomplished. Getting a clearance can easily take four to six weeks ... or more. Start early.

Note that the AHS Forum is open to all interested parties of all nationalities and all organizations. Therefore, absolutely no classified or otherwise restricted material will be published or presented in conjunction with the Forum.

### **B3. Assignment of Copyright Ownership**

The Assignment of Copyright Ownership must be received by AHS Headquarters no later than **March 24, 2010**. It can be submitted by fax (703-739-9279), emailed to [staff@vtol.org](mailto:staff@vtol.org) or sent by regular mail to AHS International, 217 N. Washington St., Alexandria, VA 22314-2538. A copy of the form is included on the following page.

The copyright laws require written transfer of copyright. This transfer protects you from unauthorized use of your presentation and gives the AHS permission to publish your paper.

Please sign the release where indicated. In the case of multiple authors only one signature is required. It is not necessary for each author to sign. In the case of a "work made for hire," an authorized representative of your employer should sign the release. If you are a U.S. government employee, you may still sign the form because you are only signing to the extent transferable, or you may include a separate letter of explanation from a representative of your government agency or department. A copyright release, or letter of explanation, is required for each paper. Government employees may also use the following copyright statement in the bottom left of the first page: "Presented at the American Helicopter Society 66<sup>th</sup> Annual Forum, Phoenix, AZ, May 11-13, 2010. This is a work of the U.S. Government and is not subject to copyright protection in the U.S."

# ASSIGNMENT OF COPYRIGHT OWNERSHIP

AHS International -- The Vertical Flight Society

FORUM 66

May 11-13, 2010

Phoenix Convention Center

Phoenix, Arizona

I, \_\_\_\_\_, (hereinafter, "the author") as author(s) (or employer, in the case of work made for hire") of the article entitled:

\_\_\_\_\_

\_\_\_\_\_ (hereinafter "the article") hereby grant and assign to the American Helicopter Society (hereinafter, "the publisher") all rights of copyright ownership now and hereafter protected in the article (for U.S. Government employees, to the extent transferable) effective if and when the article is accepted for publication in the *AHS 65th Annual Forum Proceedings*, including, but not limited to, derivation rights, the right to reproduce and distribute the article as part of the issue, and the right to grant or refuse permission to third parties to republish all or part of the article.

Provided, however, that the right to grant or refuse permission to third parties to republish all or part of this article (subject to giving proper credit including the copyright notice) shall also be held by the author.

And further provided, however, that the author reserves the right as author or editor to republish or use all or part of this article in future works, but not limited to lectures, press releases, reviews, or textbooks.

Name: (Print) \_\_\_\_\_

Signature: \_\_\_\_\_

- Author
- Employer (if the paper is the result of "work made for hire")

To ensure that you and the AHS are protected from unauthorized use of copyright material, we request that you (or, in the case of "work made for hire", your employer) sign and return this transfer agreement to the American Helicopter Society International, 217 N. Washington St., Alexandria, VA 22314-2538. This must be received before your article can be accepted for publication.

This form is due no later than **Wednesday, March 24, 2010.**

AHS International

217 N. Washington St., Alexandria, VA 22314-2538

Tel. (703) 684-6777, Fax: (703) 739-9279

Email: [staff@vtol.org](mailto:staff@vtol.org)

#### **B4. Speaker Information Form**

A Speaker Form must be completed for the individual who will actually be making a presentation at the Forum. A copy of this form is on the following page. Only one copy of this form is needed for each paper regardless of the number of authors. However, if more than one person will be presenting, information for all presenters should be included. The information on this form will be used for the following:

- To provide a point of contact for your paper
- To list your presentation correctly in the official Forum program
- To prepare signs used at the Forum
- To make any special arrangements necessary for your presentation

This form must be received at AHS Headquarters no later than **Wednesday, March 24, 2010**. A copy of this form must also be forwarded to your Session Chair(s) to ensure the smooth functioning of your session. Sending the form via email is preferred. Alternatively, it can be Faxed or mailed.

## B5. Electronic Format and Submittal of Paper

### Overview

All papers **MUST** be submitted as electronic files. It is highly preferred that they be submitted through the Mira/AHS web site. If that is not possible (e.g., due to file size or browser problems), it may be submitted on a disc.

- Submittals via the web site must be completed by **March 24, 2010**.
- The web site URL is <http://www.miracd.com/AHS2010/>
- Interacting with the web site requires Version 4.0 or later of either Netscape Navigator or Microsoft Internet Explorer
- Submittals on disc must be received by **March 14, 2010** (One week earlier than web site submittals). The mailing address is:  
Mira Digital Publishing, 3800 Park Avenue, St. Louis, MO 63110-2514

Regardless of mode of submittal, it is suggested that you submit your file in Adobe Acrobat's Portable Document Format (PDF). This is the file format in which papers will be written on the CD-ROM version of the Proceedings. Therefore, if you do the conversion to PDF, then you can personally control what the file will look when read and printed from the CD-ROM.

If you are unable to perform the conversion to PDF, then you must submit your paper in one of the following file formats:

- Microsoft Word (Version 5.0 or later)
- WordPerfect (Version 5.0 or later)
- Postscript (.PS)

If you must use LaTeX please observe the following instructions: In order to generate screen-readable PDF you must include the following lines in the preamble:

```
\usepackage{times}% set default font to "Times"  
\usepackage{mathptm}% use Times in equations too  
\usepackage{helvetica}% set \sf font to Helvetica
```

Mira will convert your non-PDF file to a PDF file and give you the opportunity to preview it before it is put on the master disc of the CD-ROM of the Proceedings.

### Guidelines When Creating Word or WordPerfect Files

If you are using other than a "Mira-standard" font, you must embed that non-standard font in the file. "Mira-standard" fonts include the following TrueType fonts:

Times New Roman  
Arial  
Helvetica

Note: Using any other fonts (e.g. special symbols) and not embedding them could cause production problems, which could lead to your paper not being included in the Proceedings.

If you are including graphics, equations, or photos, you must also embed them in your file. Links to other files are NOT permitted. Any embedded macros will be disabled.

Before you submit the final version of the file of your paper, it is strongly recommended that you take the file to a computer other than the one on which it was created. Open the file, look at it carefully on the screen, print it (on a black and white printer; and if appropriate, on a color printer), and thoroughly review the printout. If possible, use someone who is not an author or a previous reviewer to look at this final version on the screen and on the printed paper.

If you have any technical questions about formatting or submitting your electronic file, please contact:

Patrick Driscoll at Mira at (866) 341-9588 X 215 between 9:00 a.m. - 5:00 p.m. (Central Time) or by e-mail at [patrickd@mirasmart.com](mailto:patrickd@mirasmart.com)

### **Computer discs**

If you submit your paper on a computer disc, it must be on one of the following formats:

CD/DVD-ROM (650 Mb)

Zip discs (Mac or PC; 100 Mb ONLY)

3.5" 1.44Mb discettes

Any disc not listed is not supported (e.g., DVD, 250 Mb Zip discs, and LS-120 discs are NOT supported).

On the disc, write your name, daytime phone number (in case any questions or problems arise), plus the name of your Technical Session and the name of the Session Chair. Enclose discs in cardboard or protective mailers to prevent damage during shipment.

### **File Compression**

If you compress your file, you must use the PKZIP compression algorithm to do so. A shareware program for performing this compression is available at <http://www.pkware.com>. Other compatible programs are available from other sources. Files compressed using Microsoft Backup Utility or other compression algorithms will NOT be accepted.

## **B6. No Paper – No Podium Rule**

A general “No Paper – No Podium” policy will be in effect for contributed papers. This policy means that an author will not be scheduled to speak if a written paper has not been received by **April 15, 2010**. This rule is not applicable to the Product Support, Operations and Vertical Flight History sessions. Videotape presentations will not be allowed.

## **B7. Speaker Registration Information/Housing Reservations**

All speakers must register for FORUM 66 and pay the reduced speaker registration rates. Speaker registration rates apply only to speakers -- not to all authors. We encourage you to register on-line at [www.vtol.org](http://www.vtol.org) no later than **April 8, 2010** to take advantage of early-bird registration rates. This will ensure that you receive a Speaker ribbon when you pick up your materials.

# AHS ANNUAL FORUM SPEAKER INFORMATION FORM

## FORUM 66

May 11-13, 2010 • Phoenix Convention Center • Phoenix, AZ

Please complete this form in its entirety and return it to AHS Headquarters, 217 N. Washington St., Alexandria, VA 22314-2538, fax (703) 739-9279, e-mail: [staff@vtol.org](mailto:staff@vtol.org) by **March 24, 2010**. In addition, please forward one copy of this form to your Session Chair(s). The information on this form will be used to publicize your presentation.

Session: \_\_\_\_\_ Chair: \_\_\_\_\_

Title of Presentation/Paper: \_\_\_\_\_

\_\_\_\_\_

Author(s) (List full name, job title & employer for each author)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Presenter: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Fax: \_\_\_\_\_

Please read carefully:

- Author will submit an electronic file of the paper to Mira Digital Publishing by the specified deadline of **March 24, 2010** for Web Site submittal
- The process for clearance for publication and presentation has been initiated.

### Speaker Bio:

Please provide a description of your current job responsibilities and also a brief description of one or two recent accomplishments and offices held.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**FORUM 66 REGISTRATION FORM**

AHS 66th Annual Forum and Technology Display, "Rising to New Heights in Vertical Lift Technology"  
 May 11-13, 2010 – Phoenix Convention Center, Phoenix, Arizona



Fax completed form to: 703-739-9279 or mail to AHS International (address at bottom of form)

**1 REGISTRANT:** (Please print or type information as it should appear on your badge)

|                       |                   |                                      |                  |                           |
|-----------------------|-------------------|--------------------------------------|------------------|---------------------------|
| <b>(Mr. Ms. Rank)</b> | <b>First Name</b> | <b>MI</b>                            | <b>Last Name</b> | <b>Nickname for Badge</b> |
| <b>Job Title</b>      |                   | <b>Organization</b>                  |                  |                           |
| <b>Address</b>        |                   | <b>Indicate Home ___ or Work ___</b> |                  |                           |
| <b>City</b>           |                   | <b>State/Province</b>                |                  | <b>Zip</b>                |
| <b>Country</b>        |                   | <b>Email</b>                         |                  |                           |
| ( ) <b>Telephone</b>  |                   | ( ) <b>Fax</b>                       |                  |                           |

*SPOUSE REGISTRATION:* I have enclosed appropriate Spouse Registration Fees

|                       |                   |           |                  |                           |
|-----------------------|-------------------|-----------|------------------|---------------------------|
| <b>(Mr. Ms. Rank)</b> | <b>First Name</b> | <b>MI</b> | <b>Last Name</b> | <b>Nickname for Badge</b> |
|-----------------------|-------------------|-----------|------------------|---------------------------|

Check here if you have a disability requiring special services

**2** Circle your choices and then fill in **section 4**

**REGISTRATION FEES**

|   | 3 Days<br>by 4/23/10      | 3 Days<br>after 4/23/10 | 2 Days | 1 Day |
|---|---------------------------|-------------------------|--------|-------|
| <b>OPTIONS FOR AHS MEMBERS</b>                            | <b>AHS Member # _____</b> |                         |        |       |
| <i>Attendee</i>   | \$725                     | \$790                   | \$565  | \$425 |
| <i>Speaker or Gov't Employee</i>                          | \$675                     | \$730                   | \$550  | \$315 |
| <i>Full-Time Student/Fully Retired/Uniformed Military</i> | \$275                     | \$330                   | \$235  | \$160 |
| <b>OPTIONS FOR NON-AHS MEMBERS</b>                        |                           |                         |        |       |
| <i>Attendee</i>   | \$795                     | \$860                   | \$635  | \$495 |
| <i>Speaker or Gov't Employee</i>                          | \$745                     | \$800                   | \$620  | \$415 |
| <i>Full-Time Student/Fully Retired/Uniformed Military</i> | \$340                     | \$395                   | \$305  | \$230 |
| <b>OPTIONS FOR SPOUSE</b>                                 | \$260                     | \$315                   | \$225  | \$150 |

The above Registration fees include all functions scheduled on the day(s) attending.  
**Proceedings may be purchased for an additional fee. (See fees in Section 3)**

**CHECK APPLICABLE DAYS OF ATTENDANCE:**

Tuesday 5/11     Wednesday 5/12     Thursday 5/13

**3 ADDITIONAL ITEMS AND FUNCTIONS**

Check your selections and then fill in **section 4**

|  |                |                          |         |                          |
|--|----------------|--------------------------|---------|--------------------------|
| AHS Member Proceedings                     | \$205ea CD-ROM | <input type="checkbox"/> | Printed | <input type="checkbox"/> |
| Non-Member Proceedings                     | \$255ea CD-ROM | <input type="checkbox"/> | Printed | <input type="checkbox"/> |
| Extra VFF Reception & Grand Awards Banquet | \$ 85          | <input type="checkbox"/> |         |                          |
| Workshop- <i>All Forum Attendees</i>       | \$160          | <input type="checkbox"/> |         |                          |
| AHS Member Attending Workshop ONLY         | \$200          | <input type="checkbox"/> |         |                          |
| Non-Member Attending Workshop ONLY         | \$250          | <input type="checkbox"/> |         |                          |

**4 SUMMARIES OF FEES**

|                 |                 |
|-----------------|-----------------|
| Registration    | \$ _____        |
| Workshop        | \$ _____        |
| Proceedings     | \$ _____        |
| Extra Functions | \$ _____        |
| <b>Total</b>    | <b>\$ _____</b> |

**5 PAYMENT METHOD**

Check     Make payable (US\$) to AHS International  
 MasterCard  | Visa  | American Express  | Purchase Order

Card Number: \_\_\_\_\_

Exp. Date: \_\_\_\_\_

Signature: \_\_\_\_\_

We will fax or mail our **WIRE TRANSFER INFORMATION** upon request.  
 Send a fax to: 703-739-9279 to solicit this information.

**CANCELLATION POLICY:**  
 No refunds after April 23, 2010.  
 There will be a \$50 fee cancellation fee for all credit card transactions.

**OFFICE USE ONLY:**  
 Date Received \_\_\_\_\_

## FORUM 66 HOTEL RESERVATIONS

To receive a special Forum 66 discounted hotel rate, you must book your hotel room by **April 8, 2010**. After April 8, 2010 FORUM 66 room reservations will be confirmed on a space-available basis at the prevailing room rate. A deposit equal to one night's room and tax is required and will be charged by April 8, 2010 to the credit card used to guarantee the reservation. All deposits for individual room reservations are fully refundable if a room is cancelled 72 hours prior to arrival.

To make your reservation online visit the AHS web site at [www.vtol.org](http://www.vtol.org) and click on the FORUM 66 graphic. Scroll down to "Travel and Hotel Information" or you can go to [http://www.vtol.org/forum66/f66\\_travel.html](http://www.vtol.org/forum66/f66_travel.html). Select "Attendee" from the pull down list under "Find Lodging" and then put in your check-in date and check-out date using the calendar icon to the right of the white bar. Click on "Find Lodging" and you will find that FORUM 66 offers you two housing options – The Hyatt Regency Phoenix with rates starting at USD \$189 and the Wyndham Phoenix with rates starting at USD \$175. Both the Hyatt Regency Phoenix and the Wyndham Phoenix are located in close proximity to the Phoenix Convention Center. The Hyatt Regency Phoenix is located at 122 N. 2<sup>nd</sup> St. and the Wyndham Phoenix is located at 50 E. Adams St.

If you are a Government employee you will need to use the Access code AHSUSGOV. The rooms available at the U.S. Government per diem are limited so make your reservations early and remember to ask for the AHS FORUM 66 group rate!

## **B8. Journal Publication**

Papers presented at the Forum may be suitable for publication in the *Journal of the American Helicopter Society*. Guidelines for submitting a paper may be found in each issue of the Journal. If you have additional questions, please contact AHS Headquarters and Kim Smith, email [kim@vtol.org](mailto:kim@vtol.org).

## **B9. AHS Forum Best Paper Award**

### **Overview:**

Each year, one paper is selected for the "AHS Forum Best Paper Award." Paper eligibility and the selection process are outlined below. Papers need to be submitted to the Mira web site by **March 24, 2010** for consideration.

An exchange program has been initiated whereby the winner of the European Rotorcraft Forum (ERF) Cheeseman Award is invited to present his or her paper at the AHS Annual Forum. In exchange, the author of the Alfred Gessow Best Paper at the AHS Annual Forum will be sent to the ERF to present his or her paper. This year's winner will attend the 36th European Rotorcraft. Award monies are made available to cover the trip airfare and complimentary registration and lodging is provided by the ERF.

### **Objectives:**

- Stimulate wider interest in presenting papers at the AHS Forum.
- Encourage quality presentations at the AHS Forum.
- Ensure that we have the best possible paper presented at the ERF.

### **Eligibility:**

All AHS Forum technical papers submitted in time for the production of the CD-ROM and printed Proceedings are eligible with the exception of the Lichten Award winner paper and the ERF Cheeseman Best Paper winner.

### **The Award:**

The winning author(s) will receive a certificate(s), and expenses for the principal author's air travel to the European Rotorcraft Forum. Registration and accommodations will be provided by the ERF.

Submittal of the Best Paper for publication in the *Journal of the American Helicopter Society* is strongly encouraged.

## C. Detailed Guidelines

### Part I: Papers

#### **FORMAT REQUIREMENTS FOR PAPERS TO BE INCLUDED IN THE PROCEEDINGS OF AHS ANNUAL FORUMS**

The requirements that follow help ensure that your paper will be well formatted for inclusion in the Proceedings of the AHS Annual Forum. Responsibility for the successful implementation of these requirements falls not only on the authors, but also on the Session Chairs, the Forum Technical Chair, the AHS Headquarters staff, and the many volunteers who participate.

Meeting the date requested for receipt of your paper is very important. If your paper arrives late, you risk its not being included in either the CD-ROM or printed versions of the Forum Proceedings.

#### **Top-Level Format Requirements**

- The paper should be formatted for printing on 8.5-inch by 11-inch paper.
- (European-sized pages should NOT be used. The use of electronic publishing should minimize the impact of this requirement.)
- Margins should be at least 0.75 inches and not more than 1.0 inch (top, bottom, and sides).
- A standard proportional font (such as Helvetica or Times) should be used throughout the paper.
- The font size in the title block is at the discretion of the author, but should never be less than 10 point. All of the rest of the paper should be 10 point.
- The title block and abstract should be centered across the width of the first page.
- Except for the Title Block, fully justified text throughout the paper is preferred. Left justified is acceptable.
- The body of a paper should be single-spaced and in two columns of equal width (with a 0.20 inch "gutter" between columns).
- The first page must include a Copyright Statement. The statement should be a footnote at the bottom of and within the left column.
- Elements of the paper plus the sections and subsections within the body of the paper should NOT be numbered or lettered.
- The titles for the elements of the paper plus the sections and subsections may be in bold or underlined, but should not be both.
- The use of color should be limited to Figures and Tables. When using color, remember that the printed version of the Proceedings will be in black and white ONLY. You must satisfy yourself that anything in color will be readable and intelligible when printed in black and white.
- Pages should NOT be numbered.

## Organization

The paper should consist of the following elements. Except for the "Source Footnote," the elements should be arranged in exactly the following order:

- Title Block
- Source Footnote
- Abstract
- Notation (optional)
- Introduction
- Main Body (including text, figures, tables, and equations)
- Conclusions
- Appendix or Appendices (optional)
- Acknowledgments (optional)
- References

When included in a paper, an element listed in bold should start with exactly the name shown.

## Description of Elements

### **Title Block:**

The Title Block should consist of the title itself and information on each author.

Title: The title should be brief and concise. Clever and catchy titles that are appropriate for informal presentations are not generally appropriate for archival publications. Avoid unnecessary acronyms, symbols, abbreviations, and punctuation (hyphens, slashes, colons and question marks).

Author Information: Place the author's(s) full name(s) below the title and include e-mail address, official title, employer, and simple address (city and state [and country for non-US authors]) on three separate lines below the author's(s) name. For multiple authors with the same employer, formatting approaches that minimize repeating the same information are encouraged (e.g., a block for the organizational name and address with names of authors evenly distributed above it, and footnotes for individual titles). Do not include academic degrees, sub-levels within the organization, or the full mailing address.

### **Source Footnote:**

A footnote should be placed at the bottom of the left column of the first page to show the source of the paper. It should include the specific Forum, the location, and the date. The second line should indicate copyright. Please refer to the example below:

---

Presented at the American Helicopter Society 66th Annual Forum, Phoenix, AZ,  
May 11-13, 2010. Copyright © 2010 by the American Helicopter Society International, Inc.  
All rights reserved.

## **Abstract:**

An abstract of approximately 150 words is required. It should consist of a single paragraph only. It should be a summary, not an introduction, and be complete in itself. It should not contain any numerical references to figures or references contained in the paper. The abstract should indicate the subject covered in the paper and should state the objectives of the investigation. Newly observed facts and conclusions must be stated in summary form. Readers should not have to read the paper to understand the abstract. The abstract should be centered across the width of the first page.

## **Notation**

This section is optional if only a few symbols or simple equations are used. In this case, the symbols should be defined in the text when introduced. If more than a few symbols or equations are used, a Notation section should be included. It should list and define the symbols used (including units). Place the symbols in alphabetical order, English first, Greek next, and then subscripts. The metric and dual system (metric and English) should be used if possible. If used, this section is the first section in the two-column format.

## **Introduction**

The introduction should introduce the subject, provide some background, including a brief assessment of prior work by others (citing relevant references), and an explanation of how the paper contributes to the field. It is not a summary. The introduction tells what has been done, what needs to be done, and how the present results relate to past work and present needs.

## **Main Body**

Organize the main body under logical headings and subheadings. Do not number the headings. Main headings are centered on the page, subheadings begin at the left margin above the text, and sub-subheadings are set at the left margin on the first line of the paragraph. Use third person. Avoid jargon, slang and commercialism. Use acronyms and footnotes sparingly. Use simple English prose in paragraph form wherever possible.

## **Equations**

Unless only a few are used, all equations should be numbered in the order introduced and referred to in the text by number. Equations and/or symbols may be presented in any suitable form; however, clarity for the printer is essential. Special symbols should be identified.

## **Placement of Figures and Tables**

Figures and tables should be inserted in the Main Body. Each figure or table should be placed as soon after its reference in the text as is practical. If including them within the Main Body proves too difficult, grouping all Figures together and then all of the Tables together after the last section of the Main Body is acceptable. Note that Figures and Tables should all be within the Main Body or all after the Main Body.

## **Figures**

Illustrations and graphics used in Figures must be clear and sharp. Converting to PDF files can sometimes affect the resolution of images: If you do the conversion to PDF, carefully review the conversion of all images. Lettering should be large enough to be legible, at least 1/16"

high. If needed for clarity, selected figures can be double column width. Illustrations/figures showing plotted data should have axes labeled with appropriate names and units. Symbol keys should be included to identify plotted lines and data when needed. Additional information or parameter values related to a figure should generally be placed in the figure caption rather than on the figure itself. Each figure must be numbered and have a caption.

**Tables**

The number of tables should be kept to a minimum. Each table must have a number and a caption and should be cited in numerical order in the text. Tables should be simple and arranged in the following format. Type a double line at the top and bottom of each table and a single line under the column headings. Table footnotes should be placed under the bottom double line and should be indicated by the letters a, b, c, d, etc. The following example is given for illustrative purposes only:

**Table 1. Comparison of Vibration Data**

|                           | OH-58D |  | UH-1 |     | CH-58B 1 |     |     |
|---------------------------|--------|--|------|-----|----------|-----|-----|
| Flight Condition          | 2P     |  | 4P   | 2P  | 4P       | 6P  | 12P |
| Ground run                | —      |  | —    | .3  | .11      | .46 | .02 |
| Hover                     | .12    |  | .17  | .16 | .26      | .55 | .04 |
| Climb                     | .13    |  | .21  | .27 | .40      | .40 | .05 |
| Transition                | —      |  | —    | .34 | .34      | .80 | .09 |
| Level Flight <sup>a</sup> | .21    |  | .35  | .28 | .35      | .40 | .03 |

<sup>a</sup>Velocity of 120 kn

**Conclusions**

The most important results of the paper should be summarized as a concise list of numbered items. Conclusions should be supported by development in the main text and no new material should be introduced in this section. If the paper did not result in specific conclusions, then the section may be entitled Concluding Remarks or Concluding Recommendations, with brief summary comments as appropriate.

**Appendices**

Should be used for highly specialized data, derivations, etc. They should be lettered (A, B, C, ...) if more than one is used. Each appendix must be cited in the main text.

**Acknowledgments**

If used, this should be placed at the end of the paper, before the references.

**References**

All reference material should be grouped in the final section of the paper, numbered, and placed in the order cited in the text. Reference only that material which is readily available to the reader. Do not include classified material, internal company memoranda, or reports unavailable to the reader. Use the following style:

**Book** — Johnson, W., *Helicopter Theory*, Princeton University Press, New Jersey, 1980, pp. 808-813.

**Periodical** — Chopra, I., "Dynamic Stability of a Bearingless Circulation Control Rotor Blade in Hover," *Journal of the American Helicopter Society*, Vol. 30, (4), October 1985.

**Report** — Straub, F., "Study to Eliminate Ground Resonance Using Active Controls," NASA CR 166609, October 1984.

**Meeting Paper** — Esculier, J., and Bousman, W., "Calculated and Measured Blade Structural Response of a Full-Scale Rotor," American Helicopter Society 42nd Annual Forum, Washington, DC, June 1986.

# Guidelines for Electronic Projection at AHS Forum 66

***Before you present it, project it! ... Don't just view it.***

Before you come to the Forum, you should electronically project your presentation.

It may look great on your computer screen,  
but colors and font sizes may look unacceptably different when projected.

## Introduction

At the direction of the AHS Technical Council, the format for presentations at FORUM 66 will be electronic projection. Each session room will be equipped with an LCD projector connected to a computer running the Windows XP operating system. A viewgraph projector for overhead transparencies will only be provided by specific request. Back-up overhead transparencies are encouraged but not required. If speakers have a special audio-visual request, they must advise AHS Headquarters by Wednesday, **March 24, 2010**.

## File Formats

The only acceptable file formats for presentations at the Forum are Microsoft PowerPoint 2003 or later and Adobe Acrobat 5.0 or later.

Presenters must bring the file(s) for their presentation to the Forum on one of the allowable forms of removable electronic media. Allowable forms are:

- CD-ROM (must be turned in with either a protective sleeve or a case)
- USB Flash Drive

All discs must be readable by Windows XP.

Do **NOT** send or e-mail your presentation to AHS Headquarters.

Before arriving at the Forum, those who develop their presentation under an operating system other than Windows should transfer the file to a computer running Windows XP with Microsoft PowerPoint 2000 for Windows and test the conversion.

You are required to provide your electronic presentation when you register, clearly labeled with the author name, session name, session chair, and date and title of your presentation. We will pre-load the presentations the evening before your session. If you arrive on the day of your session please present your electronic presentation when you register. All presenters should report to their session rooms at least thirty minutes early, where an audio-visual technician will make sure that their presentations are loaded onto the computer provided in the assigned room.

### Every chart should:

- a. Carry the message in as concise, condensed, and technically correct manner as possible.
- b. Be legible from the back row. (Assume the distance to be 75 feet.)
- c. Standardize the typeface throughout and use bold face characters. In general,
  - All upper case is ONLY acceptable for the title
  - "Sentence case" is recommended for the body of the presentations (i.e., first letter of first word of a line is capitalized; everything else in lower case).
  - "Title case" is also acceptable (i.e., first letter of all words [except short words like "a", "the", "and"] is capitalized; all other letters are lower case).

In general, a figure or plot that is clearly legible in a paper is not acceptably legible when projected. Some simplification and clarification of a printed figure is almost always required to ensure first-class legibility when projected.

- a. Two or more figures should not be incorporated in one image. (This could be acceptable only if lettering and line thickness are correspondingly increased).
- b. Use contrasting colors: Yellow letters on a blue or black background; orange letters on a blue or black background; or white letters on a black, green or blue background.
- c. A hard copy placed on the floor should be legible from a standing position. This assessment should be done by an individual other than the author.
- d. A chart should not be "filled." It is strongly recommended that you use a maximum of seven words per line and no more than seven lines per chart. The chart should only be a prompt for the speaker and not text for the speaker or audience to read.
- e. Letters and numerals should be large. The smallest lettering that can be read easily is 1:40 of the height of the frame (0.187" within a 10" × 7.5" frame). Under no circumstances should the lettering be less than 1:50 of the frame height (0.15").

Some additional recommendations for chart preparation are as follows:

- Avoid vertical legends (and Y-axis labeling).
- Multiple lines on a graph should be individually labeled, not cross-checked to a legend.
- Avoid charts with complex equations. Very few in the audience will follow without first understanding the background and notation, which requires more time than is available.
- It is effective to use a concise title at the top of each chart. The title can be a declarative statement which tells the audience what they should learn from the image.
- A "bumper sticker" is sometimes effective (i.e., a boxed statement at the bottom of a chart which is a very concise statement of the major point that you want the viewer / reader to remember after viewing the chart).

## Session Rooms and Equipment

Each session room will be preset with the following:

Desktop PC computer running Microsoft XP/Office XP or at least  
Windows 2000/Office 2000

One XGA (1024x768) LCD Projector

One appropriate size screen (as large as possible)

One speaker timer

One laser pointer

One podium microphone and one Lavalier (for speaker)

One table microphone (Chairman)

One standing microphone (audience questions)

Two students will be assigned to each technical session and professional A/V representatives can be summoned if there are any technical difficulties. Any additional audio/visual requirements will be at the expense of the user. If you require additional A/V, please contact the AHS Deputy Director at AHS Headquarters or by e-mail at [kim@vtol.org](mailto:kim@vtol.org).

All special requests for audio/visual equipment must be made by **March 24, 2010**. A Speaker Ready Room will be available on-site.

NOTE: The use of viewgraph (overhead) projectors is discouraged. Viewgraph projectors are not suited to large meeting rooms due to keystone distortion (top edge wider than bottom edge) introduced when projecting to an elevated screen.

## Delivery

Presentations are planned on a 30-minute cycle (25 minutes for the presentation and five (5) minutes for questions). The 30-minute cycle must be observed in accordance with the published program to allow audience migration between sessions. A speaker who appears as if he or she may run over their time will be warned and, if necessary, stopped to preserve the schedule.

## **Be sure to:**

- ▶ Deliver only selected parts of your written paper. Limit selection so that your oral presentation is compatible with allotted time.
- ▶ Prior to leaving for the Forum, conduct a dry run in front of your colleagues to rehearse timing, delivery and content. The presenter is also strongly encouraged to rehearse the presentation at least once using electronic projection. It cannot be emphasized enough how this has proven to be an invaluable exercise for both the presenter and the audience.
- ▶ Use the available lavalier (lapel) microphone. Attach it along your "centerline." If you put it on one side or the other, be sure it is the side to which you expect to most often turn your head (e.g., the side nearest the screen).
- ▶ Stand at the podium and face your audience at all times.
- ▶ Speak loudly and clearly enough to be heard in the back row.
- ▶ Refer only to abbreviated notes of your presentation. It is helpful to create a prompter which includes reduced sized copies of your charts. Use your prompter as an outline to your presentation speech.
- ▶ When introducing a plot or graph on an image, briefly describe the abscissa and ordinate axes, before you get into an interpretation of the results.
- ▶ Avoid commercialism and sales nuances.
- ▶ Use a pointer only when necessary to direct attention to specific points on your image. When using the light pointer, be sure to turn it off when it is not in use to avoid distraction. Use both hands if necessary to steady the pointer.
- ▶ Finish in the allotted time or less, to leave time for questions and answers.

## **Do not:**

- ▶ Turn your back to the audience and address your speech to the screen.
- ▶ Read your speech or your charts verbatim. (Avoid a monotonous, uninteresting delivery.)