



Authors' Guide



**May 17-19, 2016
West Palm Beach, Florida**

**“Leveraging Emerging Technologies
for Future Capabilities”**

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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.

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.

Papers should be limited to 30 pages in length. (Note that papers submitted to *The Journal of the American Helicopter Society* are limited to a length of 12 pages.)

A. Important Dates to Remember

Monday, January 4, 2016 – The Mira web site is open for submittals.

- Your paper must be submitted via the Mira Forum 72 web site by **Friday, April 1, 2016** in order to present your paper at the Forum. The URL for the Mira site is <http://submissions.mirasmart.com/AHS2016/>.
- Your “Assignment of Copyright” form must be accepted by you **online** at the Mira website by **Friday, April 1, 2016**.
- Your “Annual Forum Speaker Form” must be submitted online to Mira by **Friday, April 1, 2016**.
- In order to be eligible for the AHS Best Forum Paper Award, you must submit your paper to the Mira web site by **Friday, April 1, 2016**.

Please Note: AHS will not produce a supplemental CD for Forum 72; however, late papers will be made available online. If you are unable to submit your paper on time, please contact your session chair.

April 15, 2016 – Forum 72 Hotel Reservations must be made 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/annual-forum/hotels-and-travel-information>. The number of Government Rate rooms is very limited, so **government personnel should book early**.

April 15, 2016 – Deadline for Forum 72 registration in order to take advantage of early-bird registration rates. We request that you register as soon as possible. Online registration will be available on our web site at www.vtol.org/forum by clicking on the Forum menu link at the top of the page.

Only registered speakers will be allowed to present at the Forum. Authors may register at the reduced speaker rate. If you require a Visa and need to obtain this visa a letter of invitation, please email kbrackins@vtol.org.

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.

Use the template provided on the AHS or Mira website, either in Word or Latex.

B1. Tips for Paper Preparation

When preparing your paper: Write it ... THEN format it. Write the paper 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 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 (printed on demand after the Forum) 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 **six to eight 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 accepted online when submitting your final paper on the Mira site by **Friday, April 1, 2016**.

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. The author also always retains copyright of the paper. See below for the Copyright Form that you will be asked to accept when making your final submission.

Please accept the release form on the Mira site. In the case of multiple authors, only one author is required to accept the release. If you are a U.S. government employee, you may still accept the form because you are only signing to the extent transferable. A copyright release 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 AHS 72nd Annual Forum, May 17-19, 2016, West Palm Beach, Florida USA. This is a work of the U.S. Government and is not subject to copyright protection in the U.S.”

For those organizations using their own copyright release, there is the ability to upload your final release, however, we ask that you clear it first with AHS International.

ASSIGNMENT OF COPYRIGHT OWNERSHIP

AHS International – *The Vertical Flight Technical Society*

FORUM 72

May 17-19, 2016

Palm Beach County Convention Center
West Palm Beach, Florida USA

(Information will be generated automatically in Mira) hereby grant and assign to the American Helicopter Society (AHS) International (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 72nd 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: (Generated by Mira).

(Check the Accepted box on the Mira website.)

B4. Speaker Information Form

A Speaker Form must be completed online at the Mira site for the individual who will actually be making a presentation at the Forum. Only one author needs to complete this section 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

B5. Electronic Format and Submittal of Paper

Overview

All papers **MUST** be submitted as electronic files through the Mira/AHS web site. No files may be submitted in hardcopy or on a disc.

Submittals via the web site must be completed by **Friday, April 1, 2016**. The web site URL is <http://submissions.mirasmart.com/AHS2016/>

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 version of the Proceedings. Therefore, if you do the conversion to PDF, then you can personally control what the file will look like when read and printed from the CD.

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 6.0 or later) – A Word .doc template is available.
- LaTeX – A LaTeX template is available.*
- Postscript (.PS)

*If you 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 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 x215 between 9:00 a.m. - 5:00 p.m. (Central Time) or by e-mail at patrickd@mirasmart.com

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 **Friday, April 1, 2016**. This rule is not applicable to the History sessions; and in certain cases, exemptions may be made but only by prior approval of the Session Chair and Forum Technical Chair. Videotaped presentations will not be allowed.

B7. Speaker Registration Information/Housing Reservations

All speakers must register for FORUM 72 and pay the reduced speaker registration rate. Speaker registration rates apply only to speakers – not to all authors. We encourage you to register online at www.vtol.org/forum no later than **April 15, 2016** to take advantage of early-bird registration rates.

FORUM 72 HOTEL RESERVATIONS

Forum 72 Logo Discounted hotel room rates are available to all Forum 72 guests at several popular hotels serving the Palm Beach County Convention Center and downtown entertainment district. Hotel room reservations must be made on this website to receive these special group rates. Supporting the official Forum 72 hotels will not only guarantee you a great room rate but will also help AHS to defray event costs.

Although some Forum 72 hotels may be within walking distance of the convention center, a complimentary shuttle service is being provided between hotels and the convention center. Both the Marriott Hotel and Hyatt Place are conveniently located to West Palm Beach's City Place offering a wide variety of restaurants and retail outlets. Please remember to review the benefits and features of each hotel before making your selection.

Please make your reservations through the official hotel site at:

<http://www.vtol.org/annual-forum/hotels-and-travel-information>

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* and online at: <http://www.vtol.org/publications/journal-of-ahs/journal-guidelines>. (Please note that *Journal* papers are limited to 12 pages in length.) If you have additional questions, please contact Kay Brackins at AHS headquarters, email kbrackins@vtol.org.

B9. Alfred Gessow Forum Best Paper Award

Overview:

Each year, one paper is selected for the “Alfred Gessow Best Paper Award.” Paper eligibility and the selection process are outlined below. Papers need to be submitted to the Mira web site by **Friday, April 1, 2016** 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 the 42nd European Rotorcraft Forum, September 5-8, 2016 in Lille, France. Award monies are made available to cover the trip airfare up to \$1,500 by AHS 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 Proceedings CD are eligible, with the exception of the Lichten Award winner and runner-up papers 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 up to \$1,500.00. Registration and accommodations will be provided by the ERF.

Submission of the Alfred Gessow 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, it likely will not be able to be included in the Proceedings, and your presentation will be deleted from the Forum technical schedule.

Top-Level Format Requirements

- Please use the MS Word or LaTeX Forum paper template, available online at www.vtol.org/forum along with this Authors' Guide.
- The paper should be formatted for printing on 8.5-inch by 11-inch blank paper. Corporate letterhead should NOT be used.
- 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. Also, the paper title should be in upper/lower case and **never in all capital letters**.
- 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 and should be in capital letters.
- 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.

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

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), official title, employer, and simple address (city and state [and country for non-US authors]) on separate lines below the author's(s) name. **Note: Please do not include the email address on the 1st page.** 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). Individual author emails must be included under the author name. 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 AHS 72nd Annual Forum, May 17-19, 2016, West Palm Beach, Florida USA.
Copyright © 2016 by the American Helicopter Society International, Inc. All rights reserved.

For government agencies:

Presented at the AHS 72nd Annual Forum, May 17-19, 2016, West Palm Beach, Florida USA. This is a work of the U.S. Government and is not subject to copyright protection in the U.S.

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 to ensure they are of adequate quality. 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. A reference in the text should appear before the figure.

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. A reference in the text should appear before the table. Tables should be simple and arranged in the following format. Use a thicker line at the top and bottom of each table and a thinner line under the column headings. Table footnotes should be placed under the bottom line and should be indicated by the letters a, b, c, d, etc. The following example is given for illustrative purposes only:

Table 1. AgustaWestland AW609 Aircraft Characteristics.

Characteristic	English	Metric
Engines	2 x P&WC ^a PT6C-67A turboshaft	
Passengers	6 to 9 pax + 1-2 crew	
Engine Power	2 x 1,940 shp	2 x 1,450 kW
Wingspan	33.8 ft	10.3 m
Length	46 ft	14.0 m
Height	15 ft	4.5 m
Proprotor Diameter	26 ft	7.9 m
Max Useful Load	5,500 lb	2,500 kg
Max Gross Weight	16,000 lb	6,974 kg
Range	750 nm	1,389 km
Service ceiling	25,000 ft	11,364 m
Vmax (at cruise)	275 kt	509 km/h

^a P&WC: Pratt & Whitney Canada

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.

Author Contact Information

Include emails for main author and any additional authors desired.

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," *Proceedings of the American Helicopter Society 42nd Annual Forum*, Washington, DC, June 1986.

Guidelines for Electronic Projection at AHS Forum 72

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 72 will be electronic projection. Each session room will be equipped with an LCD projector connected to a computer running the Windows operating system. If speakers have a special audio-visual request, they must advise AHS Headquarters by **April 15, 2015**.

File Formats

The only acceptable file formats for presentations at the Forum are Microsoft PowerPoint 2003 or later and Adobe Acrobat 6.0 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 (must be turned in with either a protective sleeve or a case)
- USB Flash Drive

All discs must be readable by Windows 7 or later.

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 with Microsoft PowerPoint 2003 or later for Windows and test the conversion.

Immediately after registering, please deliver your electronic presentation to the designated drop-off site clearly labeled with the author name, session name, session chair, and date and title of your presentation. If you arrive on the day of your session and your presentation is in the morning, deliver your presentation directly to your session room. We will pre-load the presentations the evening before your session. All presenters should report to their session rooms at least thirty minutes prior to the start of the session, where an audio-visual technician will make sure that the 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 likely 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. 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.
- b. A chart should not be “filled.” The chart should only be a prompt for the speaker and not text for the speaker or audience to read.
- c. 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 Office
- One Video Projector with a VGA switcher (to accommodate external components and computers)
- One appropriately sized 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)

A student volunteer 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 kbrackins@vtol.org. All special requests for audio/visual equipment must be made by **April 15, 2016**. A Speaker Ready Room will be available on-site.

NOTE: The use of viewgraph (overhead) projectors is no longer available.

Delivery

Presentations are planned on a 30-minute cycle: 5 minutes for introduction, 20 minutes for the presentation and 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 within the 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 to 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 Handout view of your presentation as 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.)
- ▶ Include “Proprietary” or similar marking on your slides.