So You Want To Write A Paper?
That Paper About Writing A Paper

Dianne Louise Rhodes
Westat
Fall 2003

ABSTRACT
You just attended your first user’s group conference, and you come out of one really good session thinking, “Hey, I could write a paper like that about My Project!” That’s what happened to me after I attended my first NESUG in 1996. And it has happened to others, just recently, in fact, a colleague asked me where he could find “That Paper about Writing a Paper.” We couldn’t find anything providing specific guidelines on how to approach the process. This paper will introduce the paper writing process: choosing a topic, researching it, developing an outline, and actually writing the paper. I’ll also walk through developing a presentation from an outline created in PowerPoint®. That’s the best way I’ve found to ensure that the presentation and paper are in sync. I’ll go over tips on making an effective presentation. Finally, in the reference section I’ll provide other resources for writing good papers and giving good presentations.

OVERVIEW
There are three things you need to write a good paper:

INSPIRATION
You must really enjoy the topic you will research; you are going to spend some time with it!

PREPARATION
What kind of background work do you need to do? How do you research your topic?

PERSPIRATION
You will be sweating to meet your deadlines. Then you will get up and talk to a group of strangers who expect you to know what you are talking about. If that doesn’t make you sweat, nothing will.

INTRODUCTION
GETTING STARTED
The first thing is the inspiration. What really fires you up? My purpose in writing this paper is to inspire more of my SAS colleagues to write papers and write them well. I started writing papers late in my SAS career; I already had almost 20 years of experience when I wrote my first NESUG paper in 1997. Why did I wait so long? I had not been attending the regional conferences. My first conference was NESUG 1996, when I realized; hey I wait so long? I had not been attending the regional conferences. I'm going to use this waitress to set off the tips. We had a group here in DC called “Tip Your Waitress” and my first job out of high school was as a waitress. When you print off a hard copy of a paper, be sure to write the source of that paper, e.g. SUGI 27 or SESUG 14. Many authors write in multiple forums. I found I had a copy of a paper by Art Carpenter that I couldn’t find in the SUGI proceedings when I went to reference it. Turns out it was from the NESUG proceedings, even though Art is based in California.

DO YOUR RESEARCH
In order to write this paper, I used many different sources of published materials on writing a paper.

WRITE THE PAPER
WRITE FROM AN OUTLINE
I start out writing an outline just as I did in graduate school. I do a “brain dump” first, just writing down every point I want to make, in no particular order. I use paper and pencil, and write on one side of a legal pad. I’ve also used 3 X 5 cards, which works when you are doing real research and need to isolate quotes and sources. Then I cut apart the outline and rearrange it into a logical order. Then I tape it together, and type it into Power Point or Word. I’ve come to prefer using Power Point in outline mode to start. This gives me an overall structure for my presentation, which I always put off until the last minute. This way I don’t have so much work left to do at the last minute. Once I’m happy with my outline, I save it to a file and transfer that file into my word processor.

Developing an outline and writing is an iterative process. Be sure to review your paper (draft and final) against your outline to make sure they are still in sync before you turn in the final paper.

RESEARCH - OFF LINE
I’ve used the electronic versions of the proceedings from both SUGI and NESUG. I find the NESUG CD is easier to search (thanks to Mike Zdeb). Both are easier to use than the on line version. SESUG provides a CD as well as hard copy proceedings. You can, of course, also use the hard copy proceedings.

RESEARCH TIP
I’m going to use this waitress to set off the tips. We had a group here in DC called “Tip Your Waitress” and my first job out of high school was as a waitress. When you print off a hard copy of a paper, be sure to write the source of that paper, e.g. SUGI 27 or SESUG 14. Many authors write in multiple forums. I found I had a copy of a paper by Art Carpenter that I couldn’t find in the SUGI proceedings when I went to reference it. Turns out it was from the NESUG proceedings, even though Art is based in California.
Use peer review to make sure your paper communicates the information you intend. I always have my mother read my papers to make sure my grammar is correct, and I haven’t used too much technical gobbledygook.

**COMPOSE YOUR PRESENTATION**

**DESIGN THE CLOSE FIRST (PEOPLES)**

David Peoples tell us to design the close first. I’m going to mention a few that are appropriate to a technical presentation. This presentation uses the Happy Ending Close. When I’m done, every one reading this paper should feel confident that they could write a paper.

For a tutorial where you are trying to get across your handful of points, you might use either the Funnel Close to focus in on those points or an Iceberg Close to telescope out. These are the handful of points your audience will remember.

The I’m Here to Help Close may or may not be appropriate at a users’ group. This close convinces your audience that your product or service or method achieves the objective. Remember that the conference is not the place to sell your product or service, but to sell your method or expertise in SAS.

**ANIMATION**

Use some animation to move your presentation forward. A little goes a long way, and helps keep folks alert. I have found the use of Revelation Technique(s) to be particularly useful. You can use Typing to simulate using the keyboard; Flying In, to bring in your slide point by point, and Graying Out to de-emphasize the points you’ve all ready made. Experiment and see which ones fit your style.

**VISUALS**

Most word processing packages include a good library of Clip Art and Animations. Take a look at them as you are composing your slides, and add some appropriate visuals to give your talk more zip. See more under humor, below. If your company has a Graphics Department, check with them. They may be helpful to you in creating custom visuals (particularly if you are doing a poster).

**PLAN AHEAD**

If you are planning to bring up SAS interactively, think again. I have been to presentations given by expert SAS folks where this has been a disaster. Instead, use screen shots of the different steps in the SAS session you want to illustrate. If you are really clever, you may even be able to fool your audience into thinking you are running SAS by using typing animation. (See Ed Heaton’s presentation on System Options as an example). Know that screen shots are quite voluminous, so plan on loading your presentation onto CD. My presentation on Oracle has four or five screen shots and takes 7 diskettes to load.

**GIVE YOUR PRESENTATION**

**COME**

Prepared
Committed
Interesting

**PRESENTATION TIP: STAND UP**

**TELL A STORY**

Think of your presentation as the story of how you accomplished a project or task. This paper is the story of writing a paper.

**HAVE A QUOTE**

http://www.three-peaks.net/comp_fun.htm#quotes
CONFUCIUS SAID
They Hear it, See it, and Do It

GIVE AN EXAMPLE
This is the example!

HUMOR
Common sense tells us to use humor. What if you can’t tell a joke? Don’t. But surely you can think of an anecdote that’s relevant, maybe a funny lesson learned. Try using cartoons Even the clip art that comes with MS Office® is pretty funny; I’m partial to the Screen Beans. You can do a google search on “computer cartoons” and find entire web sites devoted to the subject. Or maybe you like quotes. Again you can find entire web sites devoted to computer humor.

SINS (FROM DAVID PEOPLES) AND PET PEEVES
#5 Turn the Lights Out and Show Slides While Reading a Script In the Dark Right After Lunch
If you must use notes, keep them brief. One recommendation is to memorize the first few minutes of your presentation, and the last few minutes. Everything in between should flow from the information you want to present.

#6 Read Verbatim Every Word on Every Visual. The audience will just ask for the handout, please. Don’t read your slides and don’t put every word on your slides: use bullet points

MAKE EYE CONTACT
Talk to the clock in the back of the room. Find someone who looks friendly and talk to him or her. Then find someone else.

BE HEARD
Project your voice. Avoid using a monotone by varying the volume, pace, and pitch of your voice. You will ooze confidence and enthusiasm.

WHAT ABOUT HANDOUTS?
You’ve prepared a complete set of handouts. Now what happens when you have them on the table by the door? People with a busy schedule will pick them up and leave; you will lose your audience. If you intend to use a complete set, distribute them at the end. A better strategy is to prepare a separate Notes Pages with a bare bones outline. This gives the audience something to follow along with and take notes while you give your presentation.

QUESTIONS - DO
Listen to the question. Show that you heard it by repeating it. Use the microphone so that the rest of the audience can hear it, too. Show that you understand by rephrasing it. Keep your answers brief.

QUESTIONS - DON’T
Don’t interrupt the person or assume you know what the question is going to be. Don’t dialog with one person — remember your audience. And above all, don’t bluff. If you don’t know, say “I don’t know” or “I’ll get back to you.”

PRACTICE, PRACTICE, PRACTICE
Try it out. Try it on a non-technical friend (I use my mother). Try it out on your enemies, your worst critic. Your goal is to go through the whole show with no notes!

CHEAT SHEETS
If you must have notes, use the notes feature in PowerPoint. Remember to print them out before you leave for the conference, since you might not have access to a printer there.

MURPHY’S LAW - WHAT CAN GO WRONG
All of the following have happened in the past:

- Slides not compatible with projector – This happened to me during my first NESUG presentation, even though I had practiced. It was very distracting; the top of the slide wouldn’t stop waving. I still thank Ray Pass for the make shift cardboard he put over the top of the lens to hide the top of the slide.
- No extension cord or the wrong length
- Lights controlled in another room. It is just great when half way through the show someone turns the lights off.
- Start time / name wrong on program
- No Air Conditioning. This happened to me at my wedding, but that’s another story.
- No Microphone or the wrong kind. Recently we had a DCSUG meeting with only a hand-held mike, not the best for doing a presentation requiring a mouse and typing.
- No Section Chair and No Laptop – The section chair at one SUGI presentation given the morning after the kick back party failed to show up.
- Section next door too loud and out of sync with your section
- Section not near the other sections. This happened to me when I was the first presenter of the morning at NESUG in Solutions, which was in a different part of the hotel than all the other sections.

The bottom line - use the Rehearsal Room, come to your presentation time slot early enough to avert disaster, and always have back ups.

KEYS TO SUCCESS
Be Competent. I watched James Lipton interview Billy Joel on Inside the Actors Studio. Lipton remarked on what a good pianist Joel is. Joel’s response was “I’m competent. In an area where most people are not, being competent looks great.” Be Good. David Peoples says that you should strive to Be Good in a world where everyone else is terrible.

CONCLUSION
Everyone can write a paper. Write from an Outline. Practice, practice, practice

REFERENCES
Bly, Robert J. “Ten Ways to Improve Your Technical Writing.” On line at http://www.dac.neu.edu/english/m.walsh/eng1125/assign2.html


ACKNOWLEDGEMENTS
Thanks to the Westat SAS Users Group WESSUG
My special thanks and appreciation go to The Macro Maven as a valuable resource. Thanks for reading my first drafts and whispering SQL in my ear.

DISCLAIMER: The contents of this paper are the work of the author(s) and do not necessarily represent the opinions, recommendations, or practices of Westat.

CONTACT INFORMATION
Comments, questions, and additions are welcomed.
Contact the author at:
Dianne Louise Rhodes
WESTAT
An Employee-Owned Research Corporation
1650 Research Blvd.
Rockville, MD 20850
Phone: (301) 315-5977
Email: diannerhodes@westat.com

TRADEMARKS
SAS®, SAS/ACCESS®, SAS/CONNECT®, SAS/SQL® are registered trademarks of SAS Institute Inc. in the USA and other countries. ® indicates USA registration. MS Office® is a registered trademark of the Microsoft Corporation.

Other brand and product names are registered trademarks or trademarks of their respective companies.