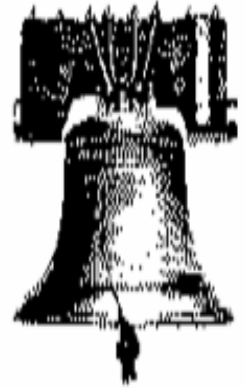




# PhilaSUG

## newsletter



### Winter 2004 Meeting Announcement

## PhilaSUG Winter 2004 Meeting Wednesday March 10, 2004

**T**he Philadelphia Area SAS Users Group Winter Meeting will be on Wednesday, March 10, 2004 at 1:00 PM, and will be hosted by the Philadelphia University at the *Tuttleman Center* on their campus in the East Falls section of Philadelphia, School House Lane & Henry Avenue. A map, detailed driving and parking instructions are available later in the newsletter.

Registration will begin at 12:15 PM and the meeting will commence at 1 PM. Please try to arrive early to register. This is the first meeting of 2004 so all who attend must register and pay dues. A tip – **to breeze through registration** – bring in the completed registration form found in the back of this newsletter to the meeting. Dues for the year are \$20. There are no other fees for attending PhilaSUG meetings. We will accept cash, but a check is preferred. If you are a student and present a current matriculation card, fees will be waived. Registration can be made a lot easier if you attach a business card to a check or \$20 bill as there is less writing to do and it is more legible. Please do not mail in your registration fee before hand as this creates unnecessary paper work. Receipts will be available at registration time.



To check for cancellations, check [www.Cancellations.com](http://www.Cancellations.com) around 10 AM on the day of the meeting for any last minute cancellation notices. On the left hand side of the page where it asks you to Enter an organization and state, for Partial name: just enter **PhilaSUG** and click on the **GO** button. If the next screen says: **"PhilaSUG has no cancellations today"** we're still on!

## Agenda

**PhilaSUG Winter Meeting**  
**Philadelphia University**  
**4201 Henry Avenue & School**  
**House Lane**  
**Philadelphia, PA 19144**

<b>12:15-1:00</b>	Registration, Posters and boxed lunch
<b>1:00-1:10</b>	Welcoming Remarks, Barry Cohen, PhilaSUG President and Susan Calder, Director of Philadelphia University Off Campus Programs
<b>1:10-2:00</b>	A Tutorial on the SAS Macro Language, John Cohen
<b>2:00-2:20</b>	CALL EXECUTE: the Most Powerful and Less Well Known SAS® System Routine, Balakrishna Dandamudii
<b>2:20-2:45</b>	Break, Posters, and refreshments
<b>2:45-3:35</b>	The Use and Abuse of the Program Data Vector, Jim Johnson
<b>3:35-3:50</b>	Open Forum
<b>3:50-4:30</b>	An Animated Guide: Version 9 Hashing, Russell Lavery

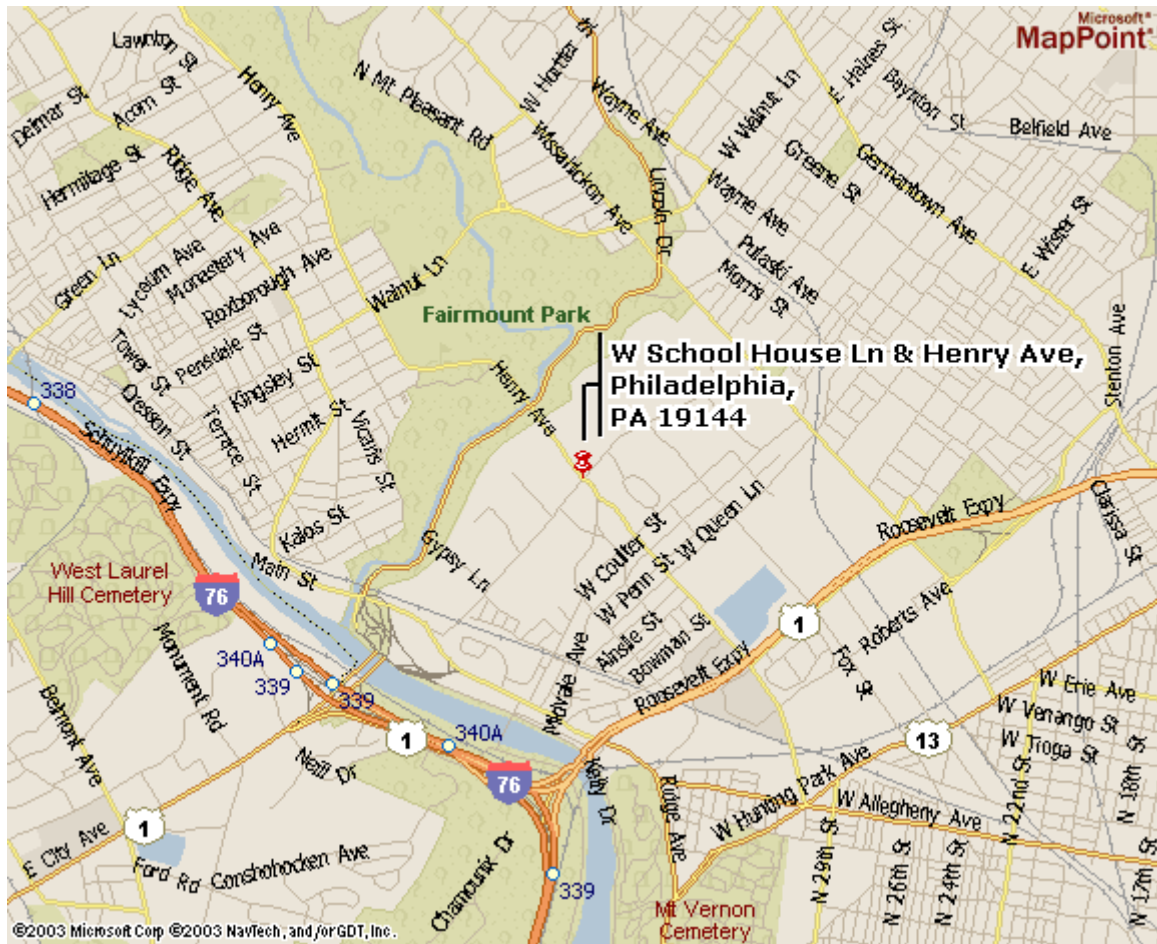
Posters will be on display throughout the meeting. Authors will be present alongside their posters during registration and the break for questions and discussions.

Abstracts and bios are found later in the newsletter.

The presenters and the PhilaSUG Executive Committee will adjourn for dinner at a nearby restaurant when the meeting concludes. You are invited to join us. The location will be announced at the meeting.

## Directions to Philadelphia University

Philadelphia University  
4201 Henry Avenue & School House Lane  
Philadelphia, PA 19144  
215-951-2700



### GETTING TO THE MAIN CAMPUS

#### BY CAR FROM:

##### Center City Philadelphia, Southern New Jersey, Central and Western Pa:

Take the Schuylkill Expressway (I-76) to the Lincoln Drive exit. Follow Lincoln Drive to Gypsy Lane (first right, (old Victorian Hotel, yellow), Police Station). Gypsy Lane (steep hill up) will end at School House Lane. Turn left on School House Lane to Henry Avenue (first traffic light).

##### Delaware County:

Take City Line Avenue (Route 1 North) to Lincoln Drive. Follow above directions from Center City, Philadelphia.

##### Washington, Baltimore and Wilmington

Take I-95 North to I-76 West. Follow above directions from Center City, Philadelphia.

##### Northeast Extension - Pennsylvania Turnpike

Exit Turnpike at Norristown, Plymouth Meeting (Exit #25). Go right after the exit and head east on Germantown Pike to first traffic light. Make a right onto Chemical Road. Go through three lights and at your fourth light, make a left at the five point intersection onto Ridge Pike. Make a left and take Ridge Pike to the Henry Avenue cutoff (bear left). (You'll be on Ridge Pike for approximately 3.5 miles.) Take Henry Avenue about 6 miles to School House Lane.

## Parking

Our conference will be held within the Tuttleman Center at Philadelphia University.

Parking is **NOT** permitted along the side of Vaux Street. This street is not the property of the University and people who park there are subject to being ticketed by the city of Philadelphia.

Parking has been approved for three University lots. In order, attendees should try

1. Tuttleman lot on Vaux St. This is an extremely small lot and will fill very quickly. Parking is **NOT** permitted along the curbs. Please park in official spaces only.
2. Hayward Hall lot on Henry Ave. Larger than Tuttleman, but still not large enough for all attendees.
3. Althouse Hall lot, also on Henry Ave. Large enough for all attendees.

The link below will take you to the campus parking map:

[www.philau.edu/announcements/map.pdf](http://www.philau.edu/announcements/map.pdf)



## SAS Programming Certificate For the Pharmaceutical Industry

Philadelphia University and SAS Institute Inc. are collaborating to provide state-of-the-art training for professionals interested in employment in the dynamic field of clinical research.

This six-month, non-credit program, offered twice annually, is designed for recent college graduates, professionals working in related fields, and career changers. Participants complete three distinct units -- classroom training, an independent project, and a paid clinical internship that is available on a competitive basis.

Program participants can expect to qualify for in-demand positions as SAS programmers in pharmaceutical companies and clinical research organizations.

**Attention all PhilaU SAS course graduates and instructors!** A Yahoo group has been created just for you! Once you have a yahoo account you can register at [http://groups.yahoo.com/group/PhilaU\\_SAS](http://groups.yahoo.com/group/PhilaU_SAS)

Please be sure to include your name in your profile so everyone knows who you are.

## PhilaSUG Executive Committee

Barry Cohen, President	(610) 649-8701
John Cohen, Membership	(302) 886-7083
Diane Foose, Secretary	(610) 917-7168
Robert Schechter, Web Master	(302) 885-5201
Ellen Asam	
Ellen Brookstein	(484) 679-2488
Max Cherny	
Lee Dodoo	(610) 834-5695
Timothy Kelly	
Jessica Lam	(484) 865-2633
Russell Lavery	
Robert Nicol	(215) 775-5813
Randy Noga	(609) 274-5219
Caryn Reape	(215) 328-2216
Terek Peterson	(610) 627-9436
Donna Usavage	
Perry Watts	

The PhilaSUG Executive Committee meets on an occasional basis, about six times per year. We invite you to become a member. It's a fun and effective way to broaden your SAS horizons.

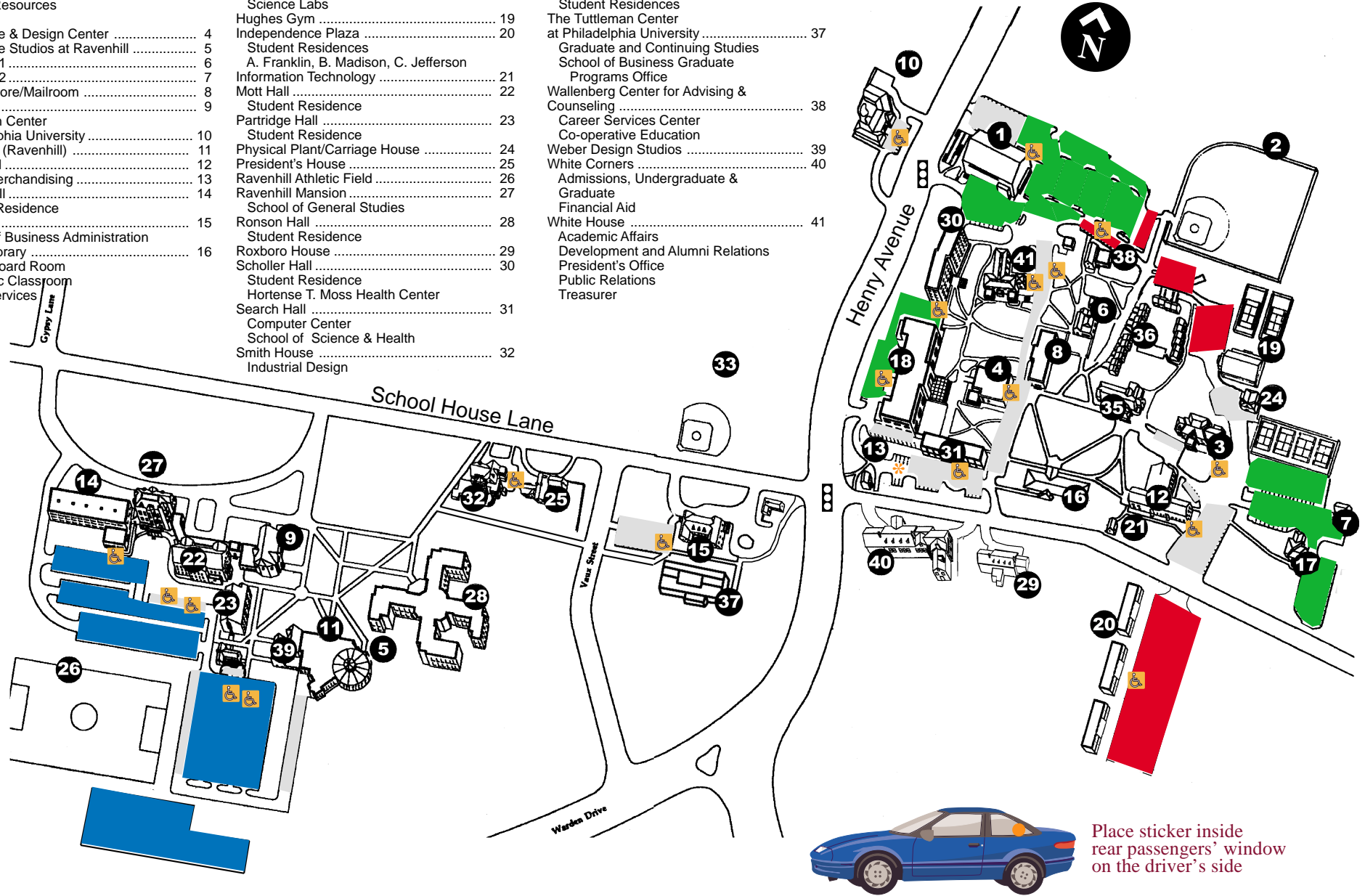


Althouse Hall ..... 1	Haggart Hall ..... 17
The Common Thread Cafeteria	Learning and Advising Center
Harris Gymnasium	Hayward Hall ..... 18
Alumni Field ..... 2	Grundy Product Evaluation Lab
Archer Hall ..... 3	School of Textiles &
Business Office	Materials Technology
Human Resources	Science Labs
Registrar	Hughes Gym ..... 19
Architecture & Design Center ..... 4	Independence Plaza ..... 20
Architecture Studios at Ravenhill ..... 5	Student Residences
Art Center 1 ..... 6	A. Franklin, B. Madison, C. Jefferson
Art Center 2 ..... 7	Information Technology ..... 21
Campus Store/Mailroom ..... 8	Mott Hall ..... 22
Chapel ..... 9	Student Residence
The Design Center	Partridge Hall ..... 23
at Philadelphia University ..... 10	Student Residence
Dining Hall (Ravenhill) ..... 11	Physical Plant/Carriage House ..... 24
Downs Hall ..... 12	President's House ..... 25
Fashion Merchandising ..... 13	Ravenhill Athletic Field ..... 26
Fortess Hall ..... 14	Ravenhill Mansion ..... 27
Student Residence	School of General Studies
Gibbs Hall ..... 15	Ronson Hall ..... 28
School of Business Administration	Student Residence
Gutman Library ..... 16	Roxboro House ..... 29
Downs Board Room	Scholler Hall ..... 30
Electronic Classroom	Student Residence
Media Services	Hortense T. Moss Health Center ..... 31
	Search Hall ..... 31
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Graduate and Continuing Studies
School of Business Graduate
Programs Office
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Career Services Center
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Financial Aid
White House ..... 41
Academic Affairs
Development and Alumni Relations
President's Office
Public Relations
Treasurer


## Parking Guide

Note: Some lots are for both Commuters & Residents




Place sticker inside rear passengers' window on the driver's side

 Handicapped Parking  
 Visitor Parking

 Blue, Gold, Green and Yellow Decals

 Red Decal

 White Decal

 Green and Gold Decals



Many of our members might remember our spring '99 meeting host as the Philadelphia College of Textiles & Science. To better reflect the institution's breadth and depth and its successful growth, the College applied for and was granted university status by the Commonwealth of Pennsylvania in 1999. And, in a historic move, the Board of Trustees voted to change the College's name to Philadelphia University, the first private university to be named exclusively after the City of Philadelphia. The name Philadelphia University became effective on July 13, 1999.

Philadelphia University is a successful new model in higher education. They are an accredited, private, coed university offering undergraduate and graduate degrees in over 40 areas of study - all within a framework of career development.

Since the late 19th century, they've been preparing professionals for a constantly changing economy. Back then, in the late 1890s, their graduates excelled in textile engineering, design, materials management and manufacturing. Today, Philadelphia U's alumni are global leaders in architecture, fashion, design, business, health professions, textiles, materials technology and science. Recent research areas include artificial intelligence, molecular modeling, exploration of key enzyme systems in seeds and animal tissues, mathematical modeling and memory processes.

Their current 3,400 students have a choice of over 40 degree programs, 20 laboratories and studios, a world-class library and unique hands-on professional learning opportunities. Five million dollars were recently plowed into technology on campus for high-speed access to cyberspace. And, they just broke ground for a new high-tech classroom building to open fall 2001. In addition, students enjoy a traditional campus life with loads of features.

They are located fifteen minutes northwest of Center City Philadelphia, adjacent to Fairmount Park the largest urban park system in the nation on a beautiful, park-like campus. Of course, if you prefer the fast lane, they're five minutes from Philadelphia's major East/West expressway. To learn more about our host visit them online at <http://www.philau.edu/>.



## Thank You to our Host

The PhilaSUG Executive Committee wishes to thank Susan Calder, Director of Off Campus Programs at Philadelphia University for arranging this meeting space. In addition, we wish to thank two members of our Executive Committee, Timothy Kelly for program coordination, and Bob Schechter for site coordination.

## Host Sites Wanted

We continuously seek host sites for future PhilaSUG meetings. There is not a lot of work involved, and it is a great way to put your company on the local SAS map. We need your help with this. If your company would like to host a meeting, within reasonable geographic proximity to Philadelphia, PhilaSUG would be grateful if you would contact Barry Cohen (610) 649-8701 or E-mail [President@PhilaSUG.org](mailto:President@PhilaSUG.org)

## Presenters Wanted

You are invited to be a Presenter - PhilaSUG constantly seeks individuals who wish to participate actively in our meetings by presenting various SAS topics in the form of delivered papers or posters. This is a great way to share your knowledge with others, to brush up your presentation prior to delivery at NESUG or SUGI or some other major conference, and to gain confidence as a speaker. Short technical SAS related articles are also desired for inclusion in the Newsletter. If this is of interest to you, please use the online abstract submission form found on our web site. Presentations can be from a few minutes to 50 minutes. If you wish to participate in the PhilaSUG Spring 2004 Meeting, please submit an abstract and bio by April 15, 2004. Your abstract must be submitted online at our web site.

## E-mail Announcements

PhilaSUG-L is a low volume, announcement-only e-mail notification service provided free of charge to all members who wish to subscribe. In order to sign up for this service, you need only send a blank e-mail message to: [PhilaSUG-L-subscribe@onelist.com](mailto:PhilaSUG-L-subscribe@onelist.com). Note that you can subscribe as many times with as many different e-mail addresses as you wish to have the e-mail sent to; e.g., home and office.

## PhilaSUG Web Site

Our site on the World Wide Web always contains the latest information concerning upcoming meetings, SAS training and seminars, links to SAS related hot topics, and local SAS job opportunities.



Visit us regularly at: <http://www.PhilaSUG.org>

## Future Meetings and Events



**Next PhilaSUG Meeting**  
June 17, 2004 Hosted by Omnicare Clinical  
Research in King of Prussia

November 14 - 17



## Paper Abstracts

### **A TUTORIAL ON THE SAS MACRO LANGUAGE**

*John Cohen, AstraZeneca Pharmaceuticals*

The SAS Macro language is another language that rests on top of regular SAS code. If used properly, it can make programming easier and more fun. However, not every program is improved by using macros. Furthermore, it is another language syntax to learn, and can create problems in debugging programs that are even more entertaining than those offered by regular SAS.

We will discuss using macros as code generators, saving repetitive and tedious effort, for passing parameters through a program to avoid hard coding values, and to pass code fragments, thereby making certain tasks easier than using regular SAS alone. Macros facilitate conditional execution and can be used to create program modules that can be standardized and re-used throughout your organization. Finally, macros can help us create interactive systems in the absence of SAS/AF.

When we are done, you will know the difference between a macro, a macro variable, a macro statement, and a macro function. We will introduce interaction between macros and regular SAS language, offer tips on debugging macros, and discuss SAS macro options.

*John is a Senior Systems Designer/Developer providing data processing, quantitative, and business analytical support to the Marketing and Sales Departments at AstraZeneca Pharmaceuticals. He started using SAS back when the name stood for something and is active in SAS user groups at a number of levels.*

### **CALL EXECUTE: the Most Powerful and Less Well Known SAS® System Routine**

*Balakrishna Dandamudi, SFBC New Drug Services*

This paper explores the ease of using CALLEXECUTE, the pitfalls in using CALLEXECUTE, and the use of CALLEXECUTE in the realm of clinical data management.

Balakrishna Dandamudi has been the Clinical Data Programmer for SFBC New Drug Services since the beginning of 2002. He has more than 8 years of

programming experience and enjoys learning new technologies and applying them in solving business problems. At the last PhilaSUG conference, Krishna presented a poster titled, "Automation of Clinical Trial Laboratory Data Acquisition using the SAS® System and DDE."

### **The Use and Abuse of the Program Data Vector**

*Jim Johnson, Covance Periapproval Services Inc.*

Have you ever wondered why SAS does the things it does or why your programs "get away with" the things that they do or why SAS would not do what you wanted it to? A key operational component of SAS is the program data vector. Without it SAS would not function, as we know it. With knowledge of the program data vector, programmers can better understand how SAS works. This paper will help you understand how the program data vector works, how data steps use it, and how you can exploit, manipulate, and trick it.

*Jim Johnson is a Principal Scientific Programmer with Covance in Radnor, PA. He has been programming SAS in the pharmaceutical industry since 1986. He has expertise writing complex systems using Base SAS, macros, PROC SQL, SAS/Connect and SAS/Access. Jim also teaches at the Philadelphia University's SAS Certificate Program, a joint educational venture between the SAS Institute and Philadelphia University. Jim has presented at the Philadelphia local SAS users group, NESUG (Northeast SAS Users Group), and PharmaSUG.*

### **An Animated Guide: V9 hashing**

*Russ Lavery, Independent Consultant*

Hashing is the fastest method in IT for performing a table lookup. It is a powerful tool for SAS programmers who have to access large data sets and wish to avoid sorting. In V8, some programmers have coded their own hashing routines, suffering through a difficult task to achieve blazing performance. V9 SAS introduces a SAS coded OBJECTS and METHODS that take much of the complexity out of hashing. Hashing can be used for subsetting, or as replacement for an if. It can be used to perform the equivalent of a BY merge without sorting the data sets – a great advantage for processors of large data sets. This presentation concentrates on hashing syntax and an animated presentation of what happens as the hashing objects are created and used.

Russ Lavery, independent contractor and member of the PhilaSUG executive committee, has used SAS for fifteen years. His experience includes using SAS for marketing, planning and operational projects in several industries. His specialty is using statistics and SAS to solve business problems. He is the creator of the "An Animated Guide" series of talks on SAS and Statistical topics.

## Poster Abstracts

### **Working with RGB and HLS Color Coding Systems in SAS® Software**

*Perry Watts, Independent Consultant*

Full-color displays have become commonplace with the advent of the Web. Typically they are rendered from desktop computers equipped with 16-bit color palettes capable of generating 65,536 unique colors. Thus a chart or scale is needed for making informed color selections for graphics applications. In SAS, the programmer has access to both the RGB(red/green/blue) and HLS(hue/light/saturation) coding systems. Both systems are defined graphically by color spaces that encompass a full gamut of code-to-color mappings. The SAS color charts and scales presented in the poster are derived from the color spaces, and the color spaces are also used to evaluate both the SAS predefined color list and the Browser-Safe palette of 216 colors. Copies of the paper can be found on the SUGI-28 and NESUG-02 CDs.

*Perry Watts specializes in SAS/GRAPH software using it to portray statistical models and to develop quality graphics for publication. She also works with macros, and enjoys PROC SQL programming assignments. Perry has a master's degree in Information Systems from Drexel University, and her first BBU book in the Art Carpenter series entitled Multiple-Plot Displays: Simplified with Macros is scheduled for publication in 2002. Perry has presented papers at SUGI, NESUG and PhilaSUG meetings. She is a member of the PhilaSUG Executive Committee.*

### **ODS Step by Step**

*Wendi Wright, Educational Testing Service*

The Output Delivery System (ODS) was developed by SAS® to create professional looking output reports, among other reasons. This paper introduces the beginning ODS user to the basic concepts of creating RTF and HTML files using SAS ODS on the MS Window platform. This paper is based on the same set of steps that I used when I was first learning ODS.

*Wendi Wright received a BS degree in Quantitative Business Analysis from Penn State University in 1985. She is currently working at Educational Testing Service in the Statistical Analysis Department and has been a SAS programmer for 15 years.*

### **Integration of SAS Macros and Web-Based User Interfaces**

*James Wu, Merck Research Laboratory*

A web-based user interface with integration of SAS macros has been developed and internally used for preparing statistical review aids for incorporation into FDA electronic submissions. Its web-based interface is user-friendly and easy to follow. It also facilitates requirement gathering and quality control, error/warning detection, documentation, and validation. It allows users from different groups to easily communicate with each other and to readily access various resources, such as user instructions, guidelines, examples, templates, and other internal/external links. With the web-based user interface users can produce consistent, efficient, regulatory-compliant, and high quality statistical review aids. The success of the user interface has already been demonstrated in a pilot project for a recent e-submission.

*James Wu is a senior statistical programmer at Merck Research Laboratory of Blue Bell, PA. In addition to the project experience in the clinical data analysis and report using SAS, James has developed an integrated automation tool (eSubStudio) for preparing FDA electronic submissions. The tool has been internally used for three recent submissions, with superior efficiency and high quality. James had a Ph.D. in environmental engineering.*



Philadelphia Area SAS User Group (**PhilaSUG**)  
Membership Form

To speed through registration complete this form (please print) and return it to the registration desk of any PhilaSUG meeting (do **NOT** mail it). Checks should be made payable to PhilaSUG. Our membership year runs from Jan. 1 to Dec. 31.

This is a \_\_ new, \_\_ renewal or \_\_ update / correction.

Name: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ STATE: \_\_\_\_\_ Zip: \_\_\_\_\_

Day Time Phone Number: (        ) \_\_\_\_\_ - \_\_\_\_\_

PhilaSUG-L is a low volume, announcement-only e-mail notification service provided free of charge. By subscribing you'll be notified of the latest information about upcoming events, especially meeting announcements. By listing your e-mail address below you will be added to the electronic mailing list, you can cancel at anytime.

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

(Be sure to clearly distinguish a dash from an underscore)

For updates / corrections, please list your old / incorrect information below:



# **PhilaSUG**

**PhilaSUG Membership  
17 Kensington Lane  
Newark, DE 19713-3706**



**Philadelphia University  
The Tuttleman Center**

**Newest high-tech classroom building**