



# PhilaSUG

## newsletter



### Fall 2016 Meeting Announcement

## PhilaSUG Fall 2016 Meeting Tuesday October 11, 2016

The West Chester University Department of Mathematics and Applied Statistics Program is pleased to partner with SAS for their first annual SAS Day. Their speaker will be Fang Chen from the SAS Institute and he will speak on an Introduction to Bayesian Analysis followed by an Introduction to PROC MCMC.

After the talk there will be a free lunch, professional mingling and student posters on display.

At 1 o'clock we will kick off the Fall 2016 PhilaSUG meeting (Separate registrations required). For additional details on the SAS Day and the Fall Meeting refer to: [http://philasug.org/calendar.htm#SAS\\_Day](http://philasug.org/calendar.htm#SAS_Day).

A map, driving, and parking instructions are available later in the newsletter.

Registration will begin at 12:15 PM. The meeting will commence at 1 PM. Dues for the year are \$30. There are no other fees for attending PhilaSUG meetings. We will accept cash, but a check is preferred. As a courtesy for hosting this meeting student, faculty, and staff at West Chester University, fees for this meeting will be waived.

PhilaSUG is aware of the problem that students face to attend professional meetings on limited budgets. For 2016, PhilaSUG has instituted the following trial program. Show your current student ID at the registration desk and we will issue you a 2016 PhilaSUG Membership ID card, which will allow you to attend this and the remaining PhilaSUG meetings at no cost. We hope that students will take advantage of this offer to enhance their knowledge of SAS software and to network with local fellow SAS users.

|  |   |   |
|--|---|---|
| <b>Agenda</b>  | We thank our host and the SAS Institute for providing lunch and break refreshments. |   |
|  | <b>12:15-1:00</b>   | Registration and lunch  |
|  | <b>1:00-1:10</b>  | Opening Remarks   |
|  | <b>1:10-2:00</b>  | Terek Peterson - <i>Steps and Slides of Implementing Global Standards</i>                         |
|  | <b>2:00-2:15</b>  | Xingshu Zhu - <i>Alternative Imputation Method</i>  |
|  | <b>2:15-3:15</b>  | Kevin Lee - <i>CDISC electronic submission to FDA</i>   |
|  | <b>3:15-3:40</b>  | Break, view posters, and refreshments   |
|  | <b>3:40-4:00</b>  | Jonas Bilenas - <i>Using SAS®/QC to Design Optimal Experimental Designs in Consumer Lending</i>   |
|  | <b>4:00-4:50</b>  | Amos Odeleye - <i>Financial Stress Testing using SAS: Wall Street &amp; Main Street Nightmare</i> |
|  | <b>4:50-5:00</b>  | Open Forum, raffle, and closing remarks (You must be present to win)                              |
| <b>Posters</b>   |   |   |
| Matthew Hopkins - <i>Usage of Proc PRINTTO to Route SAS Log and Procedure Output</i> |   |   |
| Andrew Werner and Kevin Christie - <i>Statistical Process Control: Proc Shewhart</i> |   |   |
| Michael Tomk - <i>An Introduction to the SAS® Loan Procedure</i>                     |   |   |

A tip – **to breeze through registration** – bring in the completed registration form found in the back of this newsletter to the meeting, otherwise, registration can still be simplified if you attach a business card to a check or cash, as there is less writing and it will be more legible. Please do not mail in your registration fee beforehand. Receipts will be available at registration time.

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.



**Important** – This meeting will be held in conjunction with the **West Chester University SAS Day**. The event will be held in two parts. There will be separate registrations for each half. Registration links and additional details for

each half can be found on our [calendar page](#). **If you will be attending**, please complete the online [PhilaSUG Meeting sign-up form](#) found on our website **no later than October 7<sup>th</sup>**. If after submitting this form you later learn you can't attend please contact Max Cherny at [chernym@yahoo.com](mailto:chernym@yahoo.com). RSVPs in advance help to expedite food count and **space is limited**, so if you will be attending, please complete the online [PhilaSUG Meeting sign-up form](#).

## PhilaSUG Executive Committee

Michael Davis, President  
John Cohen, Membership  
Diane Foose, Treasurer  
Robert Schechter, Web Master, and Newsletter Editor  
Jonas V. Bilenas  
Barry Cohen  
Mark Keintz  
Steve Rhoades  
Kajal Tahiliani  
Max Cherny  
David Horvath  
Neal Musitano Jr.  
Haibin Shu

## 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.

## 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 Michael Davis at [michael.davis@alumni.duke.edu](mailto:michael.davis@alumni.duke.edu).

## Presenters Wanted

PhilaSUG 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 a regional or national SAS conference, and to gain confidence as a speaker. If this is of interest to you, please use the online abstract submission form found on our website. Presentations can be from a 10-minute “coders corner” to 50 minutes.

## 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>

## Directions to Meeting Site

West Chester University, Sykes Student Union Building,  
110 W. Rosedale Avenue, West Chester, PA 19383



West Chester University is located approximately 25 miles west of Philadelphia and 17 miles north of Wilmington. The meeting will be hosted in the Sykes Student Union Building, 110 W. Rosedale Avenue. **Parking** is located behind the building and can best be approached by Norfolk Ave. Just be sure to avoid parking in any spot reserved for employee, staff or faculty. There should be plenty of other spots available. If not there is a larger parking lot and garage east of High St. on East Campus Dr. Use Lot K or Matlack parking shown on campus map: <http://www.wcupa.edu/campusmap/>

### From Philadelphia

Take Schuylkill Expressway (Rt. 76 West) to exit #328. Follow Rt. 202 South, West Chester, for approximately 20 minutes. Take High Street exit to second traffic light at Rosedale Ave. and turn left. Go one block and cross Church Street.

Or take West Chester Pike (Rt. 3 West) to Rt. 202 S. bypass. Follow Rt. 202 S. to High Street exit. Go to second traffic light at Rosedale Avenue and turn left. Sykes Student Union is on the left. Parking is available behind the building.

### From Western Pennsylvania (Pa. Turnpike)

Take Pennsylvania Turnpike to exit #312, Downingtown. Follow signs for Rt. 100 South. Shortly after the intersection of Rts. 100 and 30, follow the signs for Pottstown Pike. Route 100 S. will become High Street in the borough of West Chester. Stay on High Street until you come to Rosedale Avenue. Turn right on Rosedale Avenue. Sykes Student Union is on the left. Parking is available behind the building.

### From Commodore Barry Bridge (New Jersey)

Coming from either North or South on New Jersey Rt. 295, follow signs for Rt. 322 West. (Bridge is on 322 W.) Cross bridge and continue on 322 W. to Rt. 1. Turn left on Rt. 1 to Rt. 202 North. Turn right on Rt. 202 N. and continue for approximately seven miles. At the Days Hotel proceed straight ahead under the overpass, following the signs for the Business District, Rt. 322. Continue north on High Street to the second traffic light at Rosedale Avenue. Turn left on Rosedale Avenue. Sykes Student Union is on the left. Parking is available behind the building.

### From Delaware Memorial Bridge (and points south)

Take Rt. 95 North through Wilmington to the exit for Rt. 202 N. (Concord Pike). Continue north on 202. (From the intersections of Rt. 1 and 202, it is approximately seven miles to West Chester.) At the Days Hotel proceed straight ahead under the overpass, following the signs for the Business District, Rt. 322. Continue north on High Street to the second traffic light at Rosedale Avenue. Turn left on Rosedale Avenue. Sykes Student Union is on the left. Parking is available behind the building.



### Public Transportation (Highly recommended)

- Septa Route 92 Bus | Between Exton and King of Prussia stops at High and Linden Sts (West Chester University)
- Septa Route 104 Bus | Between West Chester University and 69th Street Transportation Center  
Weekday | to West Chester University stops at Church Ave & University Ave (West Chester University)



## About Our Host



West Chester University offers high-quality undergraduate and graduate degrees, as well as certification and certificate programs, in more than 100 subject areas. Its master of science in applied statistics is a state-of-the-art program that brings together statistical theory, computer programming, and scientific research. This degree provides preparation for immediate employment in a variety of high-paying industry positions, as well as doctoral study in applied statistics or a related field.

Students benefit from the following:

- The integration of SAS into virtually every course.
- Evening classes geared towards the working professional
- A flexible curriculum that allows one to explore various concentrations
- Visiting lectures from prominent statisticians on topics of current interest in applied statistics
- Pursuing intensive study on a topic of interest with a faculty member through the optional thesis track
- Optional supervised, paid internships at local companies

To learn more please visit us online at [www.wcupa.edu/appliedstatistics](http://www.wcupa.edu/appliedstatistics)

## Joint Statistical Analysis Certificate with SAS®

West Chester University Applied Statistics has become a Preferred Academic Program of SAS Statistical Software. The Graduate Program in Applied Statistics now offers eligible students the opportunity to earn a SAS joint certificate. Because today's jobs depend upon your ability to analyze and interpret data, you need the knowledge and technical skills to make decisions that stand up to scrutiny from your supervisors, clients, and customers. A Master's in Applied Statistics combined with a SAS joint certificate provide you with the tools you need to be confident that you are backed by proven methodology, a solid plan, and strong data-driven assessments. The joint certificate recognizes your practical and theoretical knowledge and it confirms that you have the tools that you need to handle and analyze data/modeling problems for your organization.

For more information about the SAS Certificate, please see: <http://support.sas.com/learn/ap/prof/certprog.pdf>

## Thank You to our Host

The PhilaSUG Executive Committee wishes to thank the Department of Mathematics, West Chester University for hosting this meeting. We would like to thank the following professors from the West Chester University for making the meeting possible: Randall H. Rieger, Ph.D., Professor & Director of the Graduate Program in Applied Statistics; and Scott McClintock, Associate Professor, Department of Mathematics. In addition, we wish to thank Jonas Bilenas and Robert Schechter of the PhilaSUG Executive Committee for their efforts to coordinate this meeting.

## Future Meetings and Events



### Next PhilaSUG Meeting

Tentatively scheduled March 14

Host: Independence Blue Cross (IBC)

*PhilaSUG Winter 2017 Meeting*



SAS<sup>®</sup> GLOBAL FORUM 2017

April 2-5 | Orlando, FL

Walt Disney World Swan and Dolphin Resort



Eye halve a spelling chequer;  
It came with my pea see;  
It plainly marques four my revue,  
Miss steaks eye kin knot sea.

Eye strike a key and type a word  
And weight four it two say,  
Weather eye am wrong oar write;  
It shows me strait a weigh.

As soon as a mist ache is maid,  
It nose bee fore two long,  
And eye can put the error rite;  
Its rare lea ever wrong.

Eye have run this newsletter threw it;  
I am shore your pleased two no,  
Its letter perfect awl the weigh,  
My chequer tolled me sew.

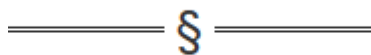
## Paper Abstracts

### Steps and Slides of Implementing Global Standards – Producing High Quality Programming Outputs Edition

*Terek Peterson, Chiltern International*

Steps and Slides of Implementing Global Standards is a playful graphic overview of the many resources that are used to develop and implement submission standards. Slides represent processes pitfalls or resistance and ladders represent helpful strategies or documents with the goal a successful submission of a safe, effective, innovative new drug. With this new Edition of the Game, a particular focus is on specific pitfalls and ladders related to submission outputs. Output in this presentation refers to data and/or documents. Assuming your organization uses sound programming and validation processes for producing SDTM, ADaM and TLGs, there are ways to increase the quality with in-stream conformance checking, senior review, interpretation guides, crosschecking macros, and checklists. Doing tasks at the right time is important, for example leaving conformance checking to the end can affect quality and obliterate timelines and budgets.

*Terek Peterson is Senior Director of Global Statistical Standards at Chiltern, with over 20 years of experience performing statistical analyses for a wide range of clinical trials. He participates as a member of the CDISC Advisory Committee, the ADaM team, the ADaMIG v1.2 authoring co-lead and sub-teams such as ADaM compliance, ADaM integration, ADaM questionnaire, and PhUSE FDA/CSS working groups. Terek is an experienced and frequent presenter on standards and SAS programming-related topics.*

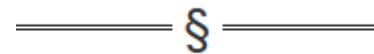


### Alternative Imputation Method

*Xingshu Zhu, Merck &Co. Inc.*

The problem of missing data arises in many clinical trials, and practical research fields. Imputation is often required to replace the missing value of a variable in a dataset such the "completed" data set can be used in subsequent analyses of the data. When working with an extensive dataset containing millions of records, however, it would be highly impractical, or maybe even impossible, to use the multiple imputation method because of the overwhelmingly large number of datasets that would have to be created. In this paper, we introduce a simple SAS® macro that allows the user to create a "complete" SAS dataset through single imputation by selecting different statistical methods.

*Dr. Xingshu Zhu is a Stat Programmer Analyst at Merck &Co. Inc. She has 15+ years of SAS programming experience in pharmaceutical industry. Prior to that, she worked in the academia doing research for several years. She received a M.S degree in Applied Statistics from Villanova University and a PhD degree in Molecular Science and Physics from Southern Illinois University.*



## **CDISC Electronic Submission to FDA**

*Kevin Lee, Clindata Insight*

According to FDA Data Standards Catalog v4.4, all clinical trial studies starting after December 17th, 2016 with the exception of certain INDs will be required to have CDISC compliant data. The presentation will introduce how to prepare for new FDA mandate. First, the paper will provide the brief introduction of regulatory recommendation of electronic submission. The paper will also discuss what programmers need to prepare for the submission according to FDA and CDISC guidelines; SDTM, ADaM, Define.xml, and Reviewer's Guide. Additionally, the paper will discuss formatting logistics that programmers should follow in their preparation of documents, including length, naming conventions and file formats of electronic files. Finally, based on information from FDA, presentation will discuss the latest FDA concerns and issues on electronic submission; the size of SAS® data sets, lack of Trial Design dataset(TS) and Define.xml, importance of Reviewer Guide, etc.

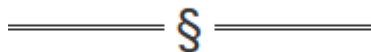
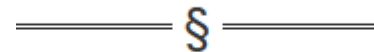
*Kevin Lee is Director of Data Science at Clindata Insight. Kevin has been in pharmaceutical industry more than 15 years and a very active CDISC user and a current member of the CDISC ADaM and SHARE Team. He has presented about 50 papers at the various conferences. Kevin earned an M.S. in Applied Statistics at Villanova University following a B.S. from University of Pennsylvania. He is also a life time learner who loves to learn and share.*

## **Using SAS®/QC to Design Optimal Experimental Designs in Consumer Lending**

*Jonas Bilenas, Barclays PCB*

We will look at how to design experiments using SAS®/QC. Examples will come from experiments testing consumer preference for direct mail credit card offers. Discussion will focus on designs of experiments using PROC OPTEX, sample size requirements, and response surface models using PROC LOGISTIC and PROC GENMOD. We will discuss what to do with design results, focusing on simulation and optimization.

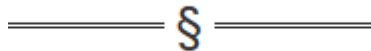
*Jonas Bilenas has been using SAS in the consumer lending industry since 1986. He is proficient in using the data step, macros, graphics, risk models, reward models, experimental design, simulation, and optimization. He is active in the SAS user community with presentations made at international, regional, and local SAS User Groups. He has also published a SAS press book titled The Power of PROC FORMAT, which is currently out of print.*



**Financial Stress Testing using SAS®:  
Wall Street & Main Street Nightmare**  
Amos Odeleye, TD Bank Financial Group

With the 2008 economic downturn and the advent of Financial regulator's Stress Testing, SAS has played a major role in providing an analytic platform for the Financial industry. This presentation will introduce the audience to Stress Testing, namely DFAST and CCAR, and demonstrate some SAS applications related to programming, analytics, and Statistics and Econometric modeling.

*Graduated with B.S. in Statistics (University of Ibadan, NIGERIA), M.S. in Statistics (West Chester University, Pennsylvania) and M.A. in Economics (Temple University, Pennsylvania - 2016). More than 15 years experience as a Statistician, Financial Analyst, SAS programmer and as a consultant. Current employment - Assistant Vice President, Corporate Finance (TD Bank Financial Group) and Adjunct Professor, College of Business & Leadership, Eastern University, St. Davids, Pennsylvania. Recent past employment - Senior Statistician/Economist - AmeriHealth Caritas ( a subsidiary of BlueCross BlueShield).*

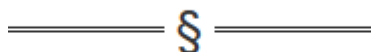


**Posters**

**An Introduction to theSAS® Loan Procedure**  
Michael Tomko, West Chester University

This poster will present a few examples of how to use the SAS® Loan Procedure to analyze simple loans.

*Michael Tomko is a student in the Master of Science in Applied Statistics program at West Chester University of Pennsylvania.*

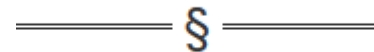


**Statistical Process Control: Proc Shewhart**  
Andrew Werner, Kevin Christie  
West Chester University

A high level introduction into statistical process control, along with an applied focus using proc shewhart.

*Andrew Werner is a Senior Financial Analyst for the Business Analytics department at Bracket, a clinical research organization located in the King of Prussia area. He is currently enrolled in the Master of Science in Applied Statistics program at West Chester University.*

*Co-Author Kevin Christie is currently a student in the West Chester University Applied Statistics Master's Program.*

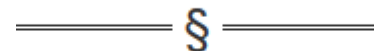


**Usage of Proc PRINTTO to Route SAS Log and Procedure Output**

Matthew Hopkins, West Chester University Applied Statistics Graduate

This poster illustrates the usage of proc PRINTTO to route SAS log and procedure output three alternative locations: external files, SAS catalogs and printers. It also discusses the use of the procedure with SAS macros and contrasts it with ODS capabilities.

*Matthew Hopkins is a recent graduate of the Applied Statistics program from West Chester University of Pennsylvania.*





# 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. Dues for the year are \$30. As a courtesy for hosting this meeting, students, faculty, and staff of West Chester University are welcome to attend this meeting at no cost. Current full-time students, showing a student ID are also welcome to attend this meeting at no cost. An attached business card helps legibility and is appreciated.

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

Check here if you are registering as a current full time student

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

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

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

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

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

**Privacy Statement** - Local SAS User Groups are requested to share their membership/mailling list with SAS Institute on an annual basis. We respect your privacy and will never rent, sell or trade your personal information provided with any other group or individual and the information provided will only be used for PhilaSUG mailings. We will not share your name, address and email address with SAS unless you Opt In below.

Check this box (Opt In) if you agree to allow us to share *your name, address and email address with SAS.*

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 any time.

E-mail:

@

provider i.e., yahoo, gmail, Verizon, Comcast, etc.

•  <= provider domain info i.e., com, org, ed, net, etc.

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

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