

Boston Area SAS® Users Group

Meeting Notice

Wednesday, May 20, 1998

8:30 - 12:00

SAS® Institute, Boston Regional Office

Prudential Tower

800 Boylston St, Suite 1500

Boston, MA

Our May meeting features a series of talks on Base SAS topics aimed at the beginning to intermediate SAS programmer. Tutorial presentations on the Input statement and Arrays will be complimented by three Coders' Corner tips that will be useful to everyone. There will also be a short presentation on the Publications Division at SAS Institute. As usual, a number of SAS-related door prizes will be given away at the end of the meeting.

This meeting is open to BASUG members and those who would like to learn more about the group. During the meeting, there will be ample opportunity for both new and former members to enroll for 1998. Our dues are only \$16 per year per person, or \$60 for all users at one site.

Attendance limited to 70 people and pre-registration is required: contact **Karin Collier** (SAS Institute/Boston) by **May 18** at:

Tel: 617-262-4201 x241, Fax: 617-262-4253, E-mail: saskmc@wnt.sas.com

For more information about the meeting, contact the meeting coordinators, Zach Johnson (617-349-2762) or Paul Grant (781-895-7614).

Schedule

- 8:30** **Continental breakfast compliments of SAS Institute**
- 9:00** **"The INPUT Statement: Where It's @"** - Ronald Cody, Robert Wood Johnson Medical School
- 10:00** **"The 'SKIP' Statement"** - Paul Grant, Private Healthcare Systems, Inc.
- "Assigning A 1/0 Value To A Variable Using Comparison Operators"** - Charlie DePascale, D.A.T.A., Inc.
- "Simplifying Complex Character Comparisons by Using the IN Operator and the Colon (:) Operator"**
 - Paul Grant, Private Healthcare Systems, Inc.
- 10:30** **"Finding the Support You Need From SAS' Publications Division"** – Chris O'Keefe, SAS Institute
- 12:00** **"Introduction to SAS Arrays"** - Ronald Cody, Robert Wood Johnson Medical School

Abstracts

"The INPUT Statement: Where It's @" - Ronald Cody, Robert Wood Johnson Medical School

The INPUT statement is one of the most powerful and flexible features of SAS software. You can read data values separated by spaces or commas (or other delimiters), data values in specified columns, or data stored in a variety of formats such as packed decimal, or binary. You can also read date values in most of the standard formats. Along with an INFILE statement, you can read data from external files as well. You can place the data for several observations on a single data line or you can read several lines of data and create a single observation. Finally, you can read values from a line of data and, depending on the value, decide how to read the remaining data. This tutorial will tell you where it's @.

Dr. Ron Cody is an Associate Professor in the department of Environmental and Community Medicine at the Robert Wood Johnson Medical School, Piscataway, New Jersey. He has been a SAS user for more than 20 years and is the author of *Applied Statistics and the SAS(r) Programming Language* (fourth edition), published by Prentice Hall. Along with Ray Pass, he has written a book called *SAS(r) Programming by Example*, a book of annotated SAS examples, published by the SAS Institute as part of their *Books by Users* series. His latest books, also published by the SAS Institute, are *The SAS Workbook*, and *The SAS Workbook: Solutions*. Ron has presented invited papers for numerous local, regional, and national SAS conferences.

"The 'SKIP' Statement" - Paul Grant, Private Healthcare Systems, Inc.

Using bracket-style comments (/* ... */) is the most common way to prevent execution of blocks of code when you are testing a SAS program. But what do you do when the code already contains comments? This paper explains how you can use the SAS Macro facility to prevent execution of blocks of SAS code - in effect, creating a super-comment or 'SKIP' statement.

Paul Grant is a Lead Programmer/Analyst at Private Healthcare Systems in Waltham, MA. He chaired the SUGI 21 (Chicago, 1996) and NESUG '94 (Philadelphia, 1994) SAS user group conferences. He is currently chairperson of the Boston Area SAS Users Group. Paul has been using SAS software in a variety of industries since 1981.

"Assigning A 1/0 Value To A Variable Using Comparison Operators"

- Charles A. DePascale, Data Analysis & Testing Associates, Inc.

Using the assignment statement $A = B = C$, it is possible to assign a 1/0 value to the variable A. The second equal sign is interpreted as a comparison operator (EQ) comparing the values of B and C. If B and C are equal, the value returned is 1. If B and C are not equal, the value returned is 0. This paper describes how we have applied variations of this coding tip to several of our most frequently used programming applications — eliminating the need for multiple IF-THEN-ELSE statements.

Charlie DePascale is president of Data Analysis & Testing Associates, Inc., a consulting company specializing in assessment, measurement, and program evaluation. He is a section co-chair for Coders' Corner at NESUG '98 and has been a regular participant in Coders' Corner since its inception at NESUG '92.

"Simplifying Complex Character Comparisons by Using the IN Operator and the Colon (:) Operator Modifier"

- Paul Grant, Private Healthcare Systems, Inc.

Complex character comparisons - comparisons of character values in a data set against a number of character constants which vary in length - are easier specified than coded. For example, how would you select the records of customers whose last names begin with 'Mc' or 'Mac'? How would you select the records of customers who live in ZIP codes beginning with '010' through '0131'? This paper will show you how to use the IN operator and the colon (:) operator modifier to code these comparisons simply and clearly.

"Introduction to SAS Arrays" - Ronald Cody, Robert Wood Johnson Medical School

SAS arrays are a facility that can reduce the amount of coding in a SAS data step. Although often thought of as an advanced programming tool, there are many applications of arrays that can be easily mastered. This talk will demonstrate some of the more common uses of SAS arrays.

Directions

From the Massachusetts Turnpike:

Follow the Mass Pike eastbound into Boston. Take exit 22 (Copley Square/Prudential Center) and follow signs for Prudential Center. This will take you directly into the Prudential Center Garage. The Mass Pike is accessible from Route 128/95.

From Route 93 Northbound/Southeast Expressway:

Exit Route 93 at exit 18 (Massachusetts Avenue). At the end of the ramp, turn right and follow Mass. Ave. for approximately 2 miles to Boylston Street. Take a right onto Boylston Street. The Prudential Center Garage is 3/4 mile on the right.

From Route 93/1 Southbound:

Exit onto Storrow Drive West and follow until the Copley Square exit on the left. Take a right onto Beacon Street and follow until Exeter Street. Take a left onto Exeter Street and follow 4 blocks. The Prudential Center Garage will be on the right.

From Route 95/1 Southbound:

Exit onto Route 93 South and follow direction above.

Parking:

Parking is available at the Prudential Center Garage for \$18 per day. There are other, less expensive parking lots in the area. If you plan to drive, try to get into the city early to avoid traffic and find a place to park.

Public Transportation

MBTA buses, commuter trains, and the Green and Orange subway lines are all within a five-minute walk from Prudential Center.

Green Line access: Prudential Center stop on Huntington Avenue, Copley station on Boylston Street at Dartmouth Street Hynes/ICA station on Newbury Street at Mass. Ave.

Orange Line: Back Bay station (indoor walking access available through Copley Place to Prudential Center/Tower)

Commuter rail: Back Bay station (indoor walking access available through Copley Place to Prudential Center/Tower)



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The Boston Area SAS® Users Group presents:

"Efficient Everyday Programming" by Bob Virgile

A Special One-Day Course for BASUG Members only -- Course fee: \$60

Wednesday, July 29, 1998, 9:00 - 4:00

Blue Cross/Blue Shield of Massachusetts, 100 Summer Street, Boston, MA

Learn Efficiency from the Guy Who Wrote the Book!

Efficient Everyday Programming is an intermediate level course covering programming tools and techniques that reduce the CPU time and storage space needed to run SAS programs. The course makes efficiency easy to understand in a number of ways. First, it breaks down efficiency into tasks which programs perform on a regular basis: reading data, reporting, handling SAS files, sorting, and summarizing and manipulating data. Second, it covers common programming techniques, eliminating more esoteric and little-used topics. Finally, the course addresses writing test programs on efficiency, so you can expand the scope to cover your own ideas and techniques.

Besides receiving a **low price**, each student will also receive a copy of both the **course notes** as well as **Bob's brand new book on SAS programming efficiency**. To make all of this possible in one day, the course will cover the lecture materials only, skipping over the workshops.

Bob Virgile has been developing and teaching SAS courses since 1983. He has presented a dozen papers for SUGI, NESUG, MWSUG, SESUG, and PharmaSUG. He creates the problem-solving contests for SUGI and NESUG, and is now completing his second book for SAS Institute, covering efficient use of SAS software.

When you ask Bob a question, you get the answer! Since he has specialized in SAS software for so many years, he knows (or will invent) programming techniques that will address your question. You will get the techniques (not just the syntax), as well as analysis of relevant factors that might favor one approach over another.

Registration & Admission

This special training class is open **to BASUG members only**. The **course fee is just \$60**. **Attendance limited to 70 people and pre-registration is required**, so mail in your registration form as soon as you can

For questions about the class or your registration, contact **Bob Virgile: 781-938-0307**

For questions about membership, contact **Peter Gaccione: 617-432-4467** or gaccione@hcp.med.harvard.edu

For information about the meeting, contact **Thiru Satchi: 617-832-3432** or tsatchi@bcbsma.com

Logistics

The class will be held at **Blue Cross/Blue Shield of Massachusetts**, 100 Summer Street, in downtown Boston. Take the escalator to the second floor of the building and check in at the security desk. A free continental breakfast will be available from 8:00 – 9:00 am. The class will start promptly at 9:00 am. Coffee and tea will be provided at the morning break. You can purchase your lunch at the building cafeteria or at one of the many local restaurants.

Directions

Public Transportation:

The best way to get to BC/BS is to take the MBTA Red Line to the Downtown Crossing station. BC/BS is a short walk South on Summer Street.

Note: If you plan to drive, try to get into the city early to avoid traffic and find a place to park.

Parking: Parking is available at the Owl Parking lot (directly behind BC/BS) for \$18 per day.

From the North:

Take the expressway South to exit 22 – South Station. (Entrance is just before the tunnel.) Come to the set of lights at the top of the ramp. Go through the set of lights and bear to the right. Come to the next set of lights. Go straight through, continuing through 2 more sets of lights. Owl Parking will be on the right.

From the South:

Take the expressway North to the Downtown/Chinatown – Mass. Pike exit. Bear left following the Downtown exit sign. Come to the bottom of the ramp. Go straight onto Lincoln Street. Come to the set of lights and Owl Parking will be on the left after the set of lights.

From the West

Take the Mass. Pike East to the South Station/Chinatown exit. Follow the Kneeland Street/Chinatown sign. At the bottom of the ramp, take a left. Take a right at the set of lights onto Lincoln Street. Come to the set of lights and Owl Parking will be on the left after the set of lights.

BASUG is a local volunteer users group begun in 1983 to further the interests of users of the SAS System in eastern New England. It is one of the groups that comprise the regional NorthEast SAS Users Group (NESUG)

Services: We hold at least four **meetings** each year, at various locations in and around Boston. They consist of technical presentations (tutorials, applications, and new features of The SAS System), as well as solutions to your programming problems. We conduct at least one **training class** each year, which is open to BASUG members only. We also serve as a **clearinghouse for SAS-related information** (SAS courses offered locally, job openings and consulting needs, Institute news, and related products available through outside vendors).

Membership: Simply complete the membership application and pay the membership dues. Yearly membership dues are only \$16 for an individual and \$60 for all users at one site. First-time attendees are always welcome at our meetings.

Meeting Notices: To receive **free, automatic e-mail notification** of upcoming meetings, courses, and conferences of interest to local SAS users, subscribe to our electronic meeting mailing-list. Send an e-mail message to subscribe@basug.com and in the body of the message, simply type **subscribe basug**

To receive our newsletter and join our private US mail list, complete and mail our membership application form.

The BASUG World Wide Web site always has the latest news about BASUG meetings as well as information on local employment opportunities, upcoming SAS training, user group conferences, and links to other SAS-related web sites.

The URL is: <http://www.basug.org/index.shtml>

We welcome your comments and especially your contributions about available positions and other SAS resources of interest to our members. You may post your company's employment or contract positions for free on the BASUG Web site by e-mailing either your company's URL or an electronic version of a want ad to webmaster@basug.org.

Tentative schedule of future meetings:

Sept 22, 1998: SAS Version 7, Paul Kent, SAS Institute at Abt Associates Inc., Cambridge

October, 1998: Training class: SAS Macros, location TBD - **members only**

Dec 9, 1998: Statistics, location TBD

Boston Area SAS® Users Group

New / Renewal Membership Application and Invoice

Please return this form with a check for the appropriate dues, made payable to "BASUG"

For questions about membership, contact **Peter Gaccione: 617-432-4467** or gaccione@hcp.med.harvard.edu

(BASUG's Federal tax ID# is 04-2964625)

Individual Membership Dues for 1998 ----- \$16.00

or

Corporate Membership Dues for 1998 ----- \$60.00

Name:

Company:

Street Address:

City, State, Zip

Daytime Phone: _____ Fax:

E-mail Address:

Operating System on which you use SAS: MVS VM VMS Win Unix OS/2

SAS Products Licensed (circle): Stat Graph FSP AF Access Connect other _____

Suggested topics for future meetings and training classes:

Subjects on which you could do a presentation at a future meeting:

Other suggestions:

Boston Area SAS® Users Group

P.O. Box 253

Boston, MA 02117

E-Mail: basug@world.std.com

URL: www.basug.org/index.shtml

Boston Area SAS® Users Group

"Efficient Everyday Programming" registration form

Return this form with a check or company PO for \$60, made payable to "BASUG" to:

Bob Virgile

3 Rock Street

Woburn MA 01801

Not a BASUG member yet? You can join BASUG member *and* register for the class at the same time by including a completed membership application and paying the appropriate dues.

(BASUG's federal tax ID# is 04-2964625)

Name:

Company:

Street Address:

City, State, Zip

Daytime Phone: _____

E-mail Address:

Boston Area SAS® Users Group

P.O. Box 253

Boston, MA 02117

BASUG - Next Meeting

-  **WHAT:** Quarterly BASUG Meeting - Boston Area SAS Users Group
-  **WHEN:** Tuesday, September 22, 1998 - 8:30 AM to 12:30 PM
-  **WHERE:** [Abt Associates Inc.](#), 55 Wheeler St, Cambridge ([map and directions](#))
-  **AGENDA:**
- 8:30 - Continental Breakfast
 - 9:00 - "Your Base SAS Dollars at Work"
 - 10:00 - "Getting Stylish with Version 7 Base Reporting"
 - 11:00 - Question + Answer Session on Version 7
-

Our Q3/98 meeting features two talks on some of the exciting new features of version 7 of the SAS System. The presenters, Paul Kent and Sandy McNeill, are developers at SAS Institute who are intimately involved in the creation of version 7. After their presentations, Paul and Sandy will share their insider's knowledge of the new release in an open forum question and answer session.

We will also distribute 15% book discount order forms. Use these special order forms to purchase any SAS Institute publication. Orders must be placed through BASUG by Oct 7. Details at the meeting. We will also have copies of most of the Books by Users books on display - most of these will be given away as door prizes at the end of the meeting

This meeting is open to BASUG members and those who would like to learn more about the group. During the meeting, there will be ample opportunity for both new and former members to enroll for 1998. Our dues are only \$16 per year per person, or \$60 for all users at one site.

Attendance is limited to the first 120 people and pre-registration is required

To register for the meeting contact Karen Dahl at Abt Associates by Monday, September 14 at:

- E-mail: karen_dahl@abtassoc.com
 - Telephone: 617-349-2787
-

Abstracts and Bios Follow:

"Your Base SAS Dollars at Work" Paul Kent, SAS Institute, Inc.

The BASE procedures group (IPD) at SAS Institute has been hard at work adding new and useful features to the heart of the SAS System. This talk describes this work and uses generic "business oriented" examples to place these features in a context that demonstrates their use in everyday programming. Covered are:

- New SUMMARY/TABULATE options like percentiles, independent ordering of class variables, and the preloading of the class-variable space using formats and/or datasets
- The ODS statement for producing output datasets and HTML output from All SAS

procedures, High-Fidelity Printing and more

- New and improved SAS Software features like longer variable names, architecture-independent SAS Datasets and cleaner access to tables in other databases.

Paul Kent has been a SAS User for almost 20 years and has worked for SAS Institute far longer than he thought he'd hold any single job. Previous contributions to SAS Software include PROC SQL; the WHERE Clause and TCP/IP connectivity. Currently Paul manages the developers responsible for ODS and the majority of BASE SAS Procedures.

"Getting Stylish with Version 7 Base Reporting" - Sandy McNeill, SAS Institute, Inc.

The Version 7 Output Delivery System [ODS] style feature is a powerful new way to customize visual aspects of SAS output. The REPORT and TABULATE procedures have been enhanced to permit direct manipulation of styles governing various regions of a report. This paper demonstrates techniques for creating eye-catching and informative HTML reports, such as traffic lighting, row banding, and hyperlinking.

Sandy McNeill is a Software Developer in the Applications Division where her primary responsibility is the care and feeding of PROC REPORT. Sandy has worked at SAS Institute for 3 years - previously she worked with embedded software design and development at the Square D Company



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the Boston Area SAS® Users Group (BASUG) presents:

"SAS Macro Programming"

by Dana Rafiee

A Special One-Day Course for BASUG Members only -- Course fee: \$50

Wednesday, October 28, 1998, 9:00 - 4:00

Blue Cross/Blue Shield of Massachusetts, 100 Summer Street, Boston, MA

Description: You will learn the theory and methods of SAS Macro programming and how to apply them to common problems. This will allow you to create simpler, more efficient, and reusable SAS code. In order to cover the maximum amount of material in one day, the course will be in lecture/demonstration format. Mr. Rafiee will demonstrate macro programming using the SAS® system, but there will be no hands-on workshops.

Besides receiving a **low price**, each student will also receive a copy of both the **course notes** and the book "**Carpenter's Complete Guide to the SAS® Macro Language**".

Prerequisite: Some knowledge of base SAS. No previous experience with the macro facility is necessary.

Dana Rafiee is a recognized authority in Mainframe and Micro SAS® Software on multiple operating systems. He has many years of experience in applications development and design in 4th Generation Languages, Operating Systems, Communications, Consulting, and Training. His specific areas of expertise include SAS, MVS, JCL, IBM Utilities, CMS, TSO, and ISPF.

Mr. Rafiee has worked as a trainer and consultant for several hundred firms over the past 12 years. He is also an active member of all of the Regional SAS User Groups and speaks regularly at these conferences and at SUGI. Mr. Rafiee conducts more than 40 different training seminars and workshops in various topics in SAS and in TSO/ISPF, CMS, MVS JCL and Utilities. He earned his BS degree in 1984 at the University of Hartford and his MBA degree with a concentration in MIS from the same school in 1986.

Registration & Admission

This special training class is open **to BASUG members only**. The **course fee is just \$50**.

Attendance is limited to 90 people and pre-registration is required, so mail in your registration form as soon as you can. If you decide to register after October 21, call Bill Simpson first to make sure a seat is available. Not a BASUG member? Send in a completed membership form with the appropriate dues together with your course registration.

For questions about the class, seating availability, or your registration, contact **Bill Simpson: 617-**

495-6671

For questions about membership, contact **Peter Gaccione: 617-432-4467** or <mailto:programmer@medstat.com>

For information about the meeting location, contact **Thiru Satchi: 617-832-3432** or <mailto:programmer@medstat.com>

Logistics

The class will be held at **Blue Cross/Blue Shield of Massachusetts**, 100 Summer Street, in downtown Boston. Take the escalator to the second floor of the building and check in at the security desk. A free continental breakfast will be available from 8:00 – 9:00 am. The class will start promptly at 9:00 am. Coffee, tea and juices will be provided at the morning break. You can purchase your lunch at the building cafeteria or at one of the many local restaurants.

Directions

Public Transportation:

The best way to get to the class is to take the MBTA to downtown Boston. BC/BS is on Summer Street, no more than a 5 minute walk from the Downtown Crossing station (Red and Orange lines), the State Street station (the Blue line), Park Street station (the Green line), and South Station (commuter rail).

Note: If you plan to drive, try to get into the city early to avoid traffic and find a place to park.

Parking: The most convenient parking is at the Owl Parking lot (located directly behind BC/BS) for about \$12 per day. The following driving directions are to this lot.

From the North:

Take the expressway South to exit 22 – South Station. (Entrance is just before the tunnel.) Come to the set of lights at the top of the ramp. Go through the set of lights and bear to the right. Come to the next set of lights. Go straight through, continuing through 2 more sets of lights. Owl Parking will be on the right.

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Meeting Notices: To receive **free, automatic e-mail notification** of upcoming meetings, courses, and conferences of interest to local SAS users, subscribe to our electronic meeting mailing-list. Send an e-mail message to <mailto:programmer@medstat.com> and in the body of the message, simply type **subscribe basug**

To receive our newsletter and join our private US mail list, complete and mail our membership application form.

The BASUG World Wide Web site always has the latest news about BASUG meetings as well as information on local employment opportunities, upcoming SAS training, user group conferences, and links to other SAS-related web sites.

The URL is: <http://www.basug.org/index.shtml>

We welcome your comments and especially your contributions about available positions and other SAS resources of interest to our members. You may post your company's employment or contract positions for free on the BASUG Web site by e-mailing either your company's URL or an electronic version of a want ad to webmaster@basug.org.

Tentative schedule of future meeting:

Dec 9, 1998: Statistics, Epsilon Data Management Company, Burlington, MA

Boston Area SAS® Users Group

New / Renewal Membership Application and Invoice

Please return this form with a check for the appropriate dues, made payable to "BASUG", to **William Simpson**. (See address on course registration form.)

For questions about membership, contact **Peter Gaccione: 617-432-4467** or
gaccione@hcp.med.harvard.edu

(BASUG's Federal tax ID# is 04-2964625)

Individual Membership Dues for 1998 ----- \$16.00

or

Corporate Membership Dues for 1998 ----- \$60.00

Name: _____

Company: _____

Street Address: _____

City, State, Zip _____

Daytime Phone: _____ Fax _____

E-mail Address: _____

Operating System on which you use SAS: MVS VM VMS Win Unix OS/2

SAS Products Licensed (circle): Stat Graph FSP AF Access Connect other _____

Suggested topics for future meetings and training classes:

Subjects on which you could do a presentation at a future meeting:

Other suggestions: _____

Boston Area SAS® Users Group

E-Mail: basug@world.std.com

URL: www.basug.org/index.shtml

Boston Area SAS® Users Group**"SAS Macro Programming" registration form**

Return this form with a check or company PO for \$50, made payable to "BASUG" to:

William Simpson

Faculty Research Computing Center, Baker Library 24

Harvard Business School, Boston, MA 02163

Not a BASUG member yet? You can join BASUG *and* register for the class at the same time by including a completed membership application and paying the appropriate dues. **For course confirmation, please include an e-mail address or enclose a self-addressed stamped envelope.**

(BASUG's federal tax ID# is 04-2964625)

Name: _____

Company: _____

Street Address: _____

City, State, Zip _____

Daytime Phone: _____

E-mail Address: _____

**William Simpson
Faculty Research Computing Center
Baker Library 24
Harvard Business School
Boston, MA 02163**



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The Boston Area SAS[®] Users Group

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Quarterly BASUG Meeting

When: Thursday, December 10, 1998 - 8:30AM to 12:30PM

Where: Epsilon Data Management

Address: 50 Cambridge St, Burlington, MA ([directions](#))

Agenda:

- 8:30 - Continental breakfast
- 9:00 - "SAS/Insight[®]--Statistical Application Demo"
- 10:00 - "Nonlinear Least Squares Analysis of HIV Viral Load Data"
- 11:00 - "An Introduction to Mixed Models in SAS[®]"
- 12:00 - Business Meeting

Contact:

- Ming Yuan
- Phone: (800) 225-1970 (x6987)
- E-mail: myuan@epsilon.com

ABSTRACTS AND BIOS:

"SAS/Insight[®]--Statistical Application Demo"

by [Steve Freitas](#), Chiron Diagnostics

SAS/Insight is a Windows interactive exploratory statistics package offered as an add-on SAS product. This add-on requires no programming by the user, only a knowledge of some basic statistical techniques. This demonstration will focus on how to set up the Windows icon shortcut to Insight, exploring data in one/two dimensions, how to select observations based on certain preset criteria, how to hide or exclude outlying observations, and basic statistical analyses.

Steve Freitas is a Senior Statistician at Chiron (soon to be Bayer) Diagnostics. Insight is used at Chiron as a tool for Scientists and Engineers to perform routine analyses on their data. By having this tool available, it frees up the statisticians to perform the more intricate statistical analyses required by the company.

"Nonlinear Least Squares Analysis of HIV Viral Load Data"

by [Peter Gaccione](#), Independent Consultant

This presentation will outline analyses which modeled HIV viral load data in a NIH sponsored clinical trial. An introduction to the biological model and its methods will be given, followed by the procedures used to fit the model and assess its viability. A further look will be given at

relationships which might exist between baseline covariates and model parameter estimates.

The emphasis of the talk will be on the use of SAS in doing the analyses. Many features of SAS/GRAPH® and some straightforward invocations of the macro language were used during this work, and the presentation will focus on these as opposed to the results of the analyses.

"An Introduction to Mixed Models in SAS®"

by [William Simpson](#), *Harvard Business School*

A mixed model is a type of general linear model where in addition to the usual (fixed) effects, at least one effect is considered random, i.e. the factor has levels that are considered a random sample from a larger universe of possible levels. Mixed models can be used to analyze problems where effects occur at different levels of analysis, such as classrooms and students, companies and employees, or experimental subjects and measurement times. In different applications, mixed models have been referred to by a number of different names: e.g. random coefficient regression, hierarchical linear models, multilevel models, and growth curve analysis. Some types of problems usually analyzed in a different way, such as repeated measures ANOVA, can also be formulated as mixed models.

This talk is an introduction to mixed models with an emphasis on applications and on using PROC MIXED to estimate these models. No previous experience with mixed models or PROC MIXED is assumed, but a familiarity with regression and PROC GLM will be helpful.

William Simpson is a Statistician/Programmer at the Faculty Research Computing Center of Harvard Business School, where he provides statistical consultation and programming for a wide variety of research projects. He has been a SAS programmer and consultant for 12 years.

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