

The Boston Area SAS® Users Group

Quarterly Meeting March 13, 2002

WHAT: Quarterly BASUG Meeting

WHEN: Wednesday, March 13, 8:30AM to 12:00

WHERE: Holiday Inn - Newton (Directions are included below)
399 Grove Street
Newton, MA 02462
617-969-5300

INDIVIDUAL, ON-LINE REGISTRATION REQUIRED. NO EMAIL!

To Register visit: <http://www.basug.org/register.php3>

CONTACT: If you have questions about the meeting contact:
Lori Goldman - (781) 863-2000 Ext. 3445

Please Note the following :

This meeting will be at a Beginner to Advanced level of SAS.

AGENDA:

8:30 - 8:45 - Sign in and Coffee Break

8:45 - 9:00 - Meeting Announcements and Introductions

9:00 - 9:50 - 'Make Your Match and Capture the Data' By Robert Rosofsky

9:50 - 10:00 - Break and Refreshments

10:00 - 10:50 - 'User Input Macros - A Substitute for Modifying Code' By Steve Freitas

10:50 - 11:00 - Break and Refreshments and BASUG Business

11:00 - 11:20 - 'The FILEVAR option of the FILE statement' By Bruno Berszoner

11:20 - 11:40 - 'Using a colon to abbreviate a list of variable names' By Bob Virgile

11:40 - 12:00 - A Tip for (not) Re-Sorting a Large Dataset By Elizabeth Axlerod

ABSTRACTS AND BIOS:

9:00 - 9:50 - "Make Your Match and Capture the Data" By Robert Rosofsky, Health Information Systems Consulting

Abstract:

SAS has a set of RX ("regular expression") pattern matching and string manipulation functions. They provide a great deal more flexibility and power than string functions such as INDEX (), SCAN(), SUBSTR(), etc. in managing character strings. These functions enable one to locate, extract, and change character strings and are especially useful in situations of varying data patterns, formats (with a small "f"), and placement within your source data. This presentation is an introduction to the power of SAS pattern matching functions and will make use of a series of real-world examples to illustrate the utility of these functions.

Bio:

To improve patient care and public health through the effective use of information systems, Robert Rosofsky has been developing and implementing health information systems for nearly two decades in both the public sector and recently as an independent consultant. He offers services in project management, systems analysis, SAS data management/ statistical programming, and SAS training.

10:00 - 10:50 - 'User Input Macros - A Substitute for Modifying Code' By Steve Freitas, MIB Group, Inc.

Abstract:

Every SAS programmer at some point in their career runs into the situation where they are presented with the situation of having to deal with similar types of data from various sources. This data invariably is in different formats. This talk will give a demonstration of how to use the %window command within SAS to develop user defined input statements. This allows the user to input the file structure to read without having to modify SAS code directly. Extensions of this technique can allow the user to input the title statements for reports, describe the source of any data set for input, or to define any variable where a macro can be used.

Bio:

Steve Freitas is a Senior Developer at e-Services Corporation which is part of the MIB Group, Inc. He is currently responsible for the model development and statistical analysis of medical impairment information. Prior to joining the MIB Group, Steve worked in support of the development of medical devices, polymer chemical products, protective equipment for the US soldier, and as a Public Health Statistician. He holds a Master's Degree in Biostatistics from the University of Pittsburgh, Graduate School of Public Health.

11:00 - 11:20 - 'The FILEVAR option of the FILE statement' By Bruno Berszoner, Private Healthcare Systems, Inc.

Abstract:

The FILEVAR option of the FILE statement in SAS has special uses when breaking apart large SAS data sets into numerous text files, each with a different name. The FILEVAR option defines a variable that controls the name of the text file that the program's output is directed to. Each time the value of that variable changes, output is redirected to a new file.

This Coder's Corner topic will illustrate how the FILEVAR option is used to break apart the single large text file containing the Medicare physician fee schedules available from

the Centers for Medicare and Medicaid studies web site. The end result is a series of text files, each containing the specific Medicare physician fee schedule for a portion of the United States.

Bio:

Bruno Berszoner is the Manager of Competitive Reimbursement at Private Healthcare Systems, Inc. in Waltham, MA and has been programming in SAS for more than 15 years. He is also a member of the BASUG Steering Committee.

11:20 - 11:40 - 'Using a colon to abbreviate a list of variable names' By Bob Virgile, Robert Virgile Associates, Inc.

Abstract:

The SAS software contains many uses for a colon, such as labeling statements, defining the range of array subscripts, and scanning through a line of data to locate nonblank characters. This coder's corner presentation explores yet another possibility: using a colon to abbreviate a list of variable names.

Bio:

Bob Virgile is a SAS veteran, with 19 years of experience developing and teaching SAS courses. He is an independent SAS trainer and consultant, and has been a regular presenter at SUGI, NESUG, and other regional conferences. He writes the problem-solving contests for SUGI (and formerly for NESUG), and has written two books for SAS Institute.

11:40 - 12:00 - 'A Tip for (not) Re-Sorting a Large Dataset' By Elizabeth Axlerod, Abt Associates

Abstract:

You have a huge dataset, happily sorted by one or more keys. But you need to modify your key fields on a relatively small number of records, which will result in an un-sorted file. This paper presents a quick way to re-sort your file ... without re-sorting your file!

Bio:

Elizabeth Axelrod is a Lead Programmer Analyst at Abt Associates Inc.. She has been using SAS for almost 20 years, and she's been a SAS fan(atic) for almost that long! She is currently the Chairperson for BASUG.

DIRECTIONS

DRIVING:

FROM BOSTON: Take I-90 West to Exit 15, then take Route 128 South (I-95) 1/4 mile to Exit 22. When you exit, stay right and bear right at the fork onto Grove Street. Hotel is on your left.

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PUBLIC TRANSPORTATION:

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Lori Goldman - (781) 863-2000 Ext. 3445

BASUG CONTACTS:

BASUG's Mail Address:

BASUG
PO Box 253
Boston, MA 02117

To email our Webmaster: webmaster@basug.org

SUBSCRIBE TO OUR EMAIL LIST:

Subscribers receive automatic e-mail notification of upcoming meetings, courses, and conferences of interest to local SAS users.

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The Boston Area SAS[®] Users Group

The Tricky Aspects of Macro Language

WHAT: "The Tricky Aspects of Macro Language" by Bob Virgile

WHEN: NEW DAY: March 26, 2002, 9:00 AM to 4:00 PM

WHERE: Holiday Inn Newton
399 Grove Street
Newton, MA 02462
617-969-5300

HOW: Register A.S.A.P.
(Print the [registration form](#), fill out, write check, mail.)

CONTACT: Bob Virgile at
virgile@mediaone.net (BEFORE March 15)
virgile@attbi.com (AFTER March 15)

DETAILS:

Registration and admission:

To register for The Tricky Aspects of Macro Language, use the [registration form](#). Include a check made payable to BASUG to cover tuition of \$125. If your BASUG dues need to be paid as well, the check should include an additional amount for either \$25 (individual dues) or \$125 (corporate dues). The BASUG Federal tax id is 04-2964625.

Note that this class is open to BASUG members only, meaning your dues must be paid up! If you wish, you can write one check to pay for both your BASUG dues and course tuition.

Checks must be mailed prior to March 21, 2002. Be sure to register early! The room size is limited, and we will not overbook! Walk-ins (and late registrations) are likely to be turned away!

Course Content:

Macro language can be tricky. Even the most common statements present potential traps. For example, this combination of statements leaves ten extra blanks in the title:

```
call symput('N', nstates);  
title "All &N States";
```

And these statements may find a match on the first comparison, but not on the second:

```
%if &state=MA %then %do;  
%if "&state"="MA" %then %do;
```

And why does the first statement work flawlessly, while the second always generates an error message:

```
%let rank=A-1;  
%if &rank=A-1 %then %do;
```

This course delves into the tricky areas, from the easy tools to the complex, with an ample helping of programming techniques. This is a lecture-style course, geared to programmers who already have a firm grasp of SAS macro language.

Details on the instructor:

Bob Virgile is a SAS wizard who has been developing and teaching SAS courses since 1983. He has presented over a dozen papers for SUGI, NESUG, MWSUG, SESUG, and PharmaSUG. He creates the problem-solving contests for SUGI (and formerly for NESUG), and has written two books for SAS Institute.

DIRECTIONS:

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schedule. Bus drops off at Riverside T Station. Hotel is adjacent to the T Station.

The Boston Area SAS[®] Users Group

Quarterly Meeting Tuesday, June 25, 2002

WHAT: Quarterly BASUG Meeting

WHEN: Tuesday, June 25, 8:30AM to 12:00

WHERE: Holiday Inn - Newton (Directions are included below)
399 Grove Street
Newton, MA 02462
617-969-5300

INDIVIDUAL, ON-LINE REGISTRATION REQUIRED. NO EMAIL!

To Register visit: <http://www.basug.org/register.php3>

CONTACT: If you have questions about the meeting contact:
Kimball Lewis: [klewis@pharmetrics.com](mailto:kewis@pharmetrics.com)

Please Note the following :

This meeting will be at a Beginner to Advanced level of SAS.

AGENDA:

8:30 - 8:45 - Sign in and Coffee Break

8:45 - 9:00 - Meeting Announcements and Introductions

9:00 - 10:15 - 'Using and Interpreting Interaction Terms in Regression' By Bill Simpson and Kimball Lewis

10:15 - 10:30 - Coder's Corner (To be announced)

10:30 - 10:50 - Break and Refreshments

10:50 - 12:00 - 'Introduction to Categorical Data Analysis: Logit and Probit Models' By James Zeitler

ABSTRACTS AND BIOS:

9:00 - 10:15 - "Using and Interpreting Interaction Terms in Regression" By Bill Simpson and Kimball Lewis

Abstract:

Bill Simpson will start the discussion with some practical theory on interaction terms and their relation to the main effects terms. His discussion will include the appropriate use of interaction terms and interpreting the coefficients. He will also discuss the need for transforming the independent variables before calculating the interaction variable in order to reduce multicollinearity and produce more meaningful

coefficient estimates. Finally, he will discuss how to calculate predicted values from a regression and how to use these predicted values to graph interaction terms in order to visualize the interaction term's effect on a model.

Kimball Lewis will demonstrate SAS techniques to calculate predicted values and graph interaction terms.

Bio:

Bill Simpson, PhD, is a Senior Statistician/Analyst at Harvard Business School, where he provides researchers with advanced statistical analyses, consultation services, and research software support.

Kimball Lewis is a Senior Research Analyst at PharMetrics, Inc., a research and marketing firm for the pharmaceutical and healthcare industries.

10:50 - 12:00 - 'Introduction to Categorical Data Analysis: Logit and Probit Models' By James Zeitler

Abstract:

Having a qualitative variable on the left-hand-side of a regression relationship requires the use of a special class of estimation methodologies and some reconsideration of the interpretation of regression coefficients. In this first of two planned sessions, we will discuss binary response models, in which the dependent variable can assume either of two values. This simple model has important practical applications, but it serves as well as an introduction to the more complicated multinomial and ordered response models.

Bio:

James Zeitler is a Research Database Analyst at Harvard Business School, providing faculty with data and statistical software support.

DIRECTIONS

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CONTACT: If you have questions about the meeting contact:
Kimball Lewis: klewis@pharmetrics.com

BASUG CONTACTS:

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unsubscribe basugnews

WHAT: **Quarterly BASUG Meeting**

THEME: It's the Start of a New School Year -- Let's Learn Something New!

WHEN: Wednesday, September 18, 2002
Quarterly Meeting: 8:00AM - 11:30PM

WHERE: Holiday Inn Newton (Directions are included below)
399 Grove Street, Newton, MA 02462
(617-969-5300)

INDIVIDUAL, ON-LINE REGISTRATION REQUIRED for the BASUG Quarterly Meeting. NO EMAIL!

To register for the morning meeting, visit: <http://www.basug.org/register.php3>

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DETAILS FOR THE BASUG QUARTERLY MEETING (MORNING EVENT)

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CONTACT: If you have questions about the meeting contact:
Ed Mounib: Edgar@Mounib.com

LEVEL: This meeting is appropriate for all levels – Beginner to Advanced

AGENDA:

8:00 - 8:30 Sign in and Coffee Break

8:30 – 8:45 Meeting Announcements and Introductions

8:45 – 9:00 Coder's Corner (To be announced)

9:00 – 10:00 "USING SAS CONNECT"
By Bill West, PhD

10:00 – 10:20 Break and Refreshments

10:20 – 10:40 Coder's Corner (To be announced)

10:40 - 11:30 "AN INTRODUCTION TO MAKING MAPS WITH SAS GRAPH"
By Michael Zdeb

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ABSTRACTS AND BIOS:

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"USING SAS CONNECT", Bill West, PhD

Abstract:

This presentation will provide an introduction to the use of SAS CONNECT, a module that enables the user to link their PC SAS session to a remote host, such as IBM or UNIX, so that programs can be written and submitted in the windows environment to run on data located on the remote host, and to directly upload and download SAS datasets. The presentation will provide information on modifying and writing SAS script files to establish the electronic link to the remote host and a demonstration of a remote session.

Bio:

Bill is a Research Analyst at Ingenix, Epidemiology Division (formerly ERI - the Epidemiology Research Institute) in Newton MA. Prior to that he worked as a statistical programmer at the VA Center for Health Care Quality, Outcomes, and Economic Research in Bedford, MA. Bill has used SAS to analyze health care data for over 15 years in various other public and private settings and has a PhD in Social Policy Analysis from the Heller School at Brandeis University.

"AN INTRODUCTION TO MAKING MAPS WITH SAS GRAPH", Michael Zdeb

Abstract:

Maps can be created with SAS using the GMAP procedure, one of the PROCs available within SAS/GRAPH. Four different map types can be created using GMAP: choropleth, prism, surface, and block. This presentation will concentrate on creating choropleth maps, i.e. "...2-dimensional maps that represent data values as combinations of pattern and color that fill map areas". A series of examples will introduce you to the basics of map making: map data sets; map projection; fill patterns; text and legend placement. After the basics are covered, additional topics will include using PROC GREMOVE to create new map areas based on current map sets and customizing the output of PROC GMAP using annotate data sets. Some of the new options in version 8.2 for creating web-based maps will also be discussed.

Bio:

Mike Zdeb, a research scientist at the Center for Community Health in the New York State Department of Health, is also an assistant professor in the Department of Epidemiology at the University at Albany School of Public Health. At the health department, he conducts research using vital statistics and hospital discharge data, primarily in the area of maternal and infant health. At the school of public health, he teaches students how to organize, manage, analyze, and present data with SAS. He also co-teaches a course in GIS & Public Health.

Mike has been a SAS user since 1986 and has presented at SUGI, NESUG, and local SAS users group meetings. His book 'Maps Made Easy Using SAS/GRAPH' was recently released as part of the Books-by-Users program of SAS Publishing.

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DIRECTIONS

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Holiday Inn Newton
399 Grove Street, Newton, MA 02462
(617-969-5300)

DRIVING:

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CONTACT: If you have questions about the meeting contact:
Ed Mounib: Edgar@Mounib.com

=====

MISCELLANEOUS

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BASUG's Mail Address:

BASUG
PO Box 253
Boston, MA 02117

WHAT: **SAS/GRAPH Training Session**

THEME: It's the Start of a New School Year -- Let's Learn Something New!

WHEN: Wednesday, September 18, 2002
Training Session: 1:00PM - 4:30PM

WHERE: Holiday Inn Newton (Directions are included below)
399 Grove Street, Newton, MA 02462
(617-969-5300)

To register for the afternoon training session, see instructions and form below.

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Details for the SAS/Graph Training Session (afternoon event)

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Course: AN INTRODUCTION TO SAS/GRAPH

Instructor: Michael Zdeb (see biography above)

Time: 1:00 - 4:30

Price: \$45 (but only if you have paid your BASUG dues!)

[Maps Made Easy Using SAS.](#)

Course Description:

PART 1 --- THE BASICS

Despite the intimidating size of the set of SAS/GRAPH manuals, very little SAS code is needed to produce presentation quality graphics with SAS/GRAPH software. PROC GPLOT is used to introduce the basic concepts of SAS/GRAPH starting with allowing SAS software to make most of the decisions for you in the creation of an x-y plot. Once you see what SAS/GRAPH produces "on its own", you will be shown how to take more control over the process of graphics creation using SAS.GRAPH statements. A brief introduction to the annotate facility will show you how to customize graphics output.

PART 2 --- MORE PROCEDURES, MORE DETAILS, MORE ANNOTATE

Now that you know the basics of SAS/GRAPH and PROC GPLOT, a few other procedures are introduced using a series of examples. More details are given about text appearance, fill patterns, and controlling appearance using the GOPTIONS statement. There is also more discussion of the annotate facility, introducing the SAS-supplied annotate macros and showing how they can be used when procedure options do not permit enough control over the appearance of graphics output.

PART 3 --- GRAPHICS OUTPUT

The final portion of the day will be spent discussing graphics output. The default destination of SAS/GRAPH when using SAS in display manager mode is the graphics output window. You will be shown how to redirect output to output devices (e.g. laser printers) and files (e.g. PDF and GIF). Creating output for web posting will be discussed, with examples of adding hyperlinks, pop-up windows, and animation. Some examples of SAS/GRAPH output posted on the web can be seen in advance of the course at...

maps: <http://www.albany.edu/~msz03/maps.html>
chart+map: http://www.health.state.ny.us/nysdoh/asthma/ny_asthma/asthma2.pdf
plot+table: http://www.health.state.ny.us/nysdoh/asthma/ny_asthma/ast11.htm

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Registration process for the Training Session

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To register for SAS/Graph Training Session, use the form below. Include a check made payable to BASUG to cover tuition of \$45. If your BASUG dues need to be paid as well, the check should include an additional

amount for either \$25 (individual dues) or \$125 (corporate dues). The BASUG Federal tax id is 04-2964625.

Note that this class is open to BASUG members only, meaning your dues must be paid up! If you wish, you can write one check to pay for both your BASUG dues and course tuition.

Checks must be mailed prior to September 10th. Please register early – seating is limited, and your seat is guaranteed only with payment!

All registrants will receive email confirmation.

If you have any questions (including whether or not your BASUG dues have been paid), call Ed Mounib at 617-256-0255.

Registration Form for SAS/Graph Training Session

Name: _____

Company: _____

Address: _____

Address: _____

Address: _____

Phone: _____

Email Address: _____

The enclosed check covers (check all that apply):

____ Tuition (\$45) ____ Individual Dues (\$25) ____ Corporate Dues (\$125)

Mail this form with the check (**payable to BASUG**) to:

Ed Mounib
25 Marion Road
Belmont, MA 02478

=====

DIRECTIONS for both events.

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Holiday Inn Newton
399 Grove Street, Newton, MA 02462
(617-969-5300)

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Ed Mounib: Edgar@Mounib.com

=====

Miscellaneous

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BASUG's Mail Address:

BASUG
PO Box 253
Boston, MA 02117

WHAT: The Boston Area SAS® Users Group Quarterly Meeting

THEME: What's New in Version 9

WHEN: Thursday, December 5, 2002, 8:30AM to 12:00PM

***** NOTE THE CHANGE IN VENUE *****

WHERE: Bentley College - Waltham

175 Forest Street

Waltham, MA 02452

781-891-2000

Executive Dining Room of the LaCava Campus Center

(Here is a link to see the Bentley College campus map:

<http://www.bentley.edu/directions/mapp.html>).

INDIVIDUAL, ON-LINE REGISTRATION REQUIRED. NO EMAIL!

To register visit: <http://www.basug.org/register.php3>

CONTACT: If you have questions about the meeting contact:
Tim Muir (978-264-5137) or
Bridget Neville (617-632-4871)

LEVEL: Geared for all levels of SAS: beginner to advanced.

AGENDA:

8:30 - 8:45 - Sign in and Coffee Break
8:45 - 9:00 - Meeting Announcements and Introductions
9:00 - 9:20 - "Distributing Reports from SAS via E-mail"
By Paul Grant
9:20 - 10:20 - "Version 9 Nuts and Bolts (Part 1)" By David Shamlin
10:20 - 10:40 - Break
10:40 - 11:40 - "Version 9 Nuts and Bolts (Part 2)" By David Shamlin
11:40 - 12:00 - "How to Create Date-based Variables Easily Using First.
And Retain" By Carter Rakovski

SNOW POLICY:

Snow is expected this Thursday, Dec. 5th. If there is a lot of snow, the BASUG quarterly meeting, scheduled at Bentley College, might be delayed (until 10) or cancelled. The meeting status coincides with whether Bentley College is open, delays opening, or closes for the day. Listen to announcements made on television and radio stations.

If Bentley has a delayed opening, we will begin at 10:00.

Some of the stations carrying Bentley College delays/cancellations are below:

WRKO	680 AM
WBZ	1030 AM
WBMX	98.5 FM
WBZ TV	Channel 4
WCVB TV	Channel 5
WHDH TV	Channel 7

Occasionally, inaccurate announcements are made. For this reason, Bentley suggests you call the Bentley College Storm Emergency Line. The recorded message is updated by 5:00 am on the date in question and can be dialed at (781) 891-2020.

ABSTRACTS AND BIOS:**"Distributing Reports from SAS via E-mail"**

By Paul Grant, SAS Institute

One of the Version 8 enhancements to Base SAS gives you the ability to send e-mail programmatically from the SAS system. This Coders' Corner presentation will walk you through some very simple SAS code that will distribute a report to a group of recipients via e-mail.

Paul Grant is a Systems Engineer at SAS in the Boston regional office. He chaired SUGI 21 in Chicago, 1996 and co-chaired NESUG '94 in Philadelphia. He has been active in the Boston Area SAS Users Group for many years. Paul has been using SAS software in a variety of industries since 1981.

"Version 9 Nuts and Bolts"

By David Shamlin, SAS Institute

What's new in the V9 Release of Base SAS? Plenty of good stuff! We'll quickly review the direction SAS is taking it's core product and briefly (I swear!) look at how the marketing message relates to the technological innovations R&D is putting into the product. But mostly we'll demo, demo, demo!!! A bunch of new tools have been added to the data step, ODS and other parts of Base that make life easier. Not only will we mention as many as we can, we'll show them in action.

David Shamlin joined SAS in 1987 as a member of the VMS Host Group, where he helped develop low-level file systems. He also did a tour of duty with the SAS IO development team, becoming a pioneer in industry standard data access interfaces to SAS data stores.

David brings these experiences to his current role as research and development director for Base Table Services, where he leads the development of fundamental SAS technology related to the data step, BASE PROCs, the LIBNAME supervisor, data set and catalog IO, SAS/SHARE and other client/server components related to SAS data access. David holds a bachelor's degree in computer science from North Carolina State University.

"How to Create Date-based Variables Easily Using First. And Retain"

By Carter Rakovski, Bentley College

In this presentation, I'll give an example of a common data problem; creating new variables based on the date and time of existing variables. Instead of merging and evaluating date and time variables, we will solve this problem using sort, retain, first., and if/then/else statements.

Carter Rakovski is currently a Senior Research Consultant at Bentley College. She assists faculty along the spectrum of the research process, including methodology, sampling, statistical analysis, data procurement, and interpretation of results. She supports faculty in their use of SAS, SPSS, and other statistical software and maintains databases, particularly large, financial data. Prior to this position, she worked as a SAS programmer and data analyst at the Center for Health, Quality, Outcomes and Economic Research, a research center jointly sponsored by the Veterans Administration Medical Center, Bedford, MA and Boston University School of Public Health. She has a Master's in Statistics from UMASS, Amherst and has been SAS programming for 5 years.

DIRECTIONS to Bentley College

(These can also be found at the Bentley College website:

<http://www.bentley.edu/directions/car.cfm?CFID=2158112&CFTOKEN=78729404>)

DRIVING:

***If you are driving to the meeting, you will need a parking permit. When you RSVP for the meeting, we will e-mail the permit to you.**

***In addition to the directions below, make sure you print a copy of the Bentley campus map (link is provided above), so you can find your way to the meeting location (Executive Dining Room of the LaCava Campus Center).**

Directions to Bentley from points North

- Take Route 95/128 South to Trapelo Road, exit 28
- Turn left at top of exit ramp
- Follow Trapelo Road 2.6 miles toward Belmont
- Turn right onto Forest Street
- One mile on the left is the Bentley College entrance.

Directions to Bentley from points South

- Take exit 27A - Totten Pond Road.
- At the end of the ramp, take a right and follow Totten Pond Road for 1.2 miles to the end.
- Take a right onto Lexington Street and go .2 miles.
- Then take a left onto Beaver Street; travel 1.5 miles (go around the rotary and continue on).
- Bentley College (and the entrance to the upper campus) will be on the left.

Directions to Bentley from points East

- Follow Storrow Drive (west) or Memorial Drive (west) to the end and follow signs toward Arlington.
- Bear left at the sign that reads "To 16 S Watertown/Waltham"
- Follow for .6 of a mile and turn right onto Belmont Street after passing the Star Market shopping center on the right.
- Continue on Belmont Street until it intersects with Trapelo Road
- Bear right onto Trapelo Road and continue for 1.7 miles
- Take a left at the light and follow the sign that reads "60 Waltham to Rte. 20." This is Waverley Oaks Road (Route 60)
- At the next traffic light, turn right onto Beaver Street
- Continue on Beaver Street, which intersects the Bentley College campus.
- Turn right onto College Drive, just before the overhead pedestrian bridge.

Directions to Bentley from points West

- Take exit 14 off the Massachusetts Turnpike
- Follow signs to Route 95/128 North
- Take Route 95/128 North to Trapelo Road, exit 28A
- Turn right at the end of the exit ramp
- Follow 2.6 miles toward Belmont
- Turn right onto Forest Street
- Approximately one mile on the left is the Bentley College main campus entrance.

PUBLIC TRANSPORTATION:

While it is possible to get to Bentley using public transportation, we recommend driving or carpooling. If, however, you are feeling adventurous, and would like to take public transportation, follow these directions:

- Somehow, get to Harvard Square.
- Take the #73 bus and get off at Waverley Square (which is the last stop).
- Pick up bus #554 and ask the driver to let you off at Bentley College.

(The #554 also runs direct from downtown Boston, with connections in Newton to several other buses. Contact the MBTA (<http://www.mbta.com/>) for a more detailed schedule.)

INDIVIDUAL, ON-LINE REGISTRATION REQUIRED. NO EMAIL! To register visit: http://www.basug.org/register.php3
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CONTACT: If you have questions about the meeting contact:
Tim Muir: 978-264-5137/Bridget Neville: 617-632-4871

BASUG CONTACTS:

BASUG's Mail Address:
BASUG
PO Box 253
Boston, MA 02117