

MWSUG 18
MidWest SAS® Users Group Conference
October 28-30, 2007
Downtown Marriott, Des Moines

A Harvest of Fresh Ideas to Help You Grow!

Dear Fellow SAS® Users:

The 18th annual MidWest SAS® Users Group conference will be held in Des Moines, Iowa on October 28, 29, and 30. Please make plans to join us in Des Moines for a unique opportunity to learn new tools and techniques and to network with other SAS® users. More than any conference that we've ever held, this one is shaping up to be an excellent training opportunity for you.

The opportunities begin with pre-conference training starting on Friday, October 26th. Additional pre-conference courses are offered on both Saturday and Sunday. These courses cover several popular topics, and will be taught by some of the top trainers in the SAS community: Art Carpenter, Ben Cochran, Kirk Paul Lafler and Dr. Morgan Wang.

In addition to pre-conference training, each of our professional SAS® trainers will teach a half-day course during the conference. You'll be able to attend one of these courses at no extra charge – it's included with your regular conference fee. To document your participation, you'll receive a certificate of completion. This is the first time we've ever done this, and we believe that this offering really enhances the educational value that you'll receive from the conference. There are many other training opportunities that are included in your regular conference fee:

- Hands-On Workshops offer in-depth instructor led training. As the name implies, these are truly "hands-on" sections where you work on exercises that help to reinforce concepts as you are learning.
- Developers and presenters from the SAS® Institute will host a section called "SAS® Presents" where they will share information about new developments and ways to use SAS® software.
- The SAS® Demo room is where you can see SAS® software in action, ask questions, and learn how you can use SAS® to solve problems.
- Destiny's Virtual Learning Café is an opportunity to get in-depth, self-paced training. Over 300 topics and lessons are available – all at no extra charge.

A first-timer session will be available on Sunday afternoon. This session is geared toward first-time conference goers, and is designed to help you get the most out of your conference experience. We'll highlight the opportunities that are available to you, give you some tips for planning your conference days, and answer questions that you may have. In addition to the training opportunities listed above, there will be many interesting presentations by SAS® users that will help you understand different ways SAS® is being used in real-world applications. The entire conference is designed to help you "Be Outstanding in Your Field".

We hope you'll join us in Des Moines.

Best regards,

Delayne Stokke and John Xu
2007 Conference Co-Chairs

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Local User Groups

SAS Institute maintains a list of local user groups in the MidWest region on the SAS Institute Web site:

<http://www.sas.com/usergroups/namerica/mwsug.hsql>. In-house groups are not included here. If we have missed an active local group, please send a message to an MWSUG board member with the appropriate contact information.

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Enjoy the Conference!

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POWER
TO KNOW®**

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Monday Night Event

Explore and Dinner at State Historical Museum

Monday evening is traditionally social activity time at MWSUG. This year is no different except we are adding our own Des Moines attitude to it. This year, we are planning a dinner at the State Historical Museum. Buses will pick you up in front of the Marriott hotel after the SAS Mixer and will return you after the dinner. This is a great opportunity to learn the state history and network with colleagues!

Did You Know ?

Fun Facts about the State Historical Building

- The largest artifact on exhibit is the Curtiss-Klein Pusher airplane in *Wings Over Iowa*. It has a wingspan of 36 feet. Another large artifact is the Conestoga covered wagon in *You Gotta Know The Territory*.
- The smallest artifacts on display are marbles. They can be found in both *The Delicate Balance* and *You Gotta Know the Territory*.
- The tree section in *The Delicate Balance* came from a tree that was more than 268 years old. Many visitors to the Iowa Historical Building like to try to count the rings.
- The carpet in *You Gotta Know the Territory* changes in each section of the exhibit. Look for a river (blue), a farm field (green), surveyed quarter sections (green with crossing stripes), a dirt road (brown), and legislative carpet (red).
- The faces of Capt. J.R.B. Gardenier and John Parmelee on the wooden cutouts of them in *You Gotta Know The Territory* have no features because there are no records of what they looked like. The cutouts are designed to look like an ordinary soldier and settler of that time.
- The Indian lodge in the *You Gotta Know the Territory* section is made out of cast rubber and fiberglass. A template for the rubber was shaped by pouring rubber over an elm tree trunk. Then, entire sheets of bark could be made using the template.
- The best temperature to keep artifacts on display is between 68-72 degrees Fahrenheit with 40-45 percent humidity. Drastic temperature changes can cause mold to grow on artifacts or dry them out beyond salvage.
- The handles on the plow in the *Farmer Capitalist* portion of *You Gotta Know the Territory* are actually horns from a cow.
- Walnut may have been a much more common wood in Iowa during the state's early years. Many of the fence posts and rails in *You Gotta Know the Territory*, are made of walnut. Today, walnut is mainly used to make expensive furniture.
- In the legislative area of *You Gotta Know the Territory*, the statue of the legislator is painted white - or white-washed - to symbolize who made the decisions in government during Iowa's years.
- Early Iowa government consisted only of white men elected by other white men to make laws for everyone. Women and racial and ethnic minorities had no say in government.
- There are approximately 563 artifacts and more than 600 images (photos, maps and documents) in *You Gotta Know the Territory*. There are approximately 327 artifacts and more than 300 images in *The Delicate Balance*.
- There is more than 55,000 square feet of exhibit space in the new historical building. The old historical building had less than 19,000 square feet of exhibit space.
- The doctor's display in *You Gotta Know the Territory* includes two wooden stethoscopes, capping glasses, spring lancet, forceps, a razor, four-sided razor strop, lozenge package, mortar bowl and a medicine bottle.
- Each of the vintage aircraft hanging from the ceiling has a distinctive Iowa story. Look for the blue information boards to discover the individual histories of these early aircraft.
- The Bleriot aircraft was featured in the 1957 film *LaFayette Escadrille*. The Bleriot (marked N4W) is the lowest-hanging plane in the atrium.

2007 Conference Schedule at a Glance

Pre-Conference Training

Friday, October 26	8:00 a.m. – 4:30 p.m.
Saturday, October 27	8:00 a.m. – 4:30 p.m.
Sunday, October 28	8:00 a.m. – 4:30 p.m.

Sunday, October 28

1:00 p.m. – 6:00 p.m.	Registration, Information Desk, and Virtual Learning Center Open
5:00 p.m. – 5:30 p.m.	Speaker and Volunteer Meeting
5:30 p.m. – 6:00 p.m.	First Timers Session
7:00 p.m. – 8:00 p.m.	Opening Ceremony Keynote Address
8:00 p.m. – 10:00 p.m.	Reception

Monday, October 29

7:30 a.m. – 11:30 a.m.	Registration, Information Desk, and Virtual Learning Center Open
7:30 a.m. – 8:30 a.m.	Breakfast Open
8:00 a.m. – 11:30 a.m.	Speaker Presentations, Training Courses and Hands-on Workshops
9:00 a.m. – 11:30 a.m.	SAS Demo Area and Vendor Displays Open
11:30 a.m. – 1:00 p.m.	Lunch at the Marriott Hotel
1:00 p.m. – 4:00 p.m.	Registration & Information Desk Open
1:00 p.m. – 4:00 p.m.	Speaker Presentations, Training Courses and Hands-on Workshops
1:00 p.m. – 4:00 p.m.	SAS Demo Area/Vendor Displays Open
4:30 p.m. – 5:30 p.m.	SAS Reception/Mixer
6:00 p.m. – 10:00 p.m.	Monday Night Event at State Historical Museum

Tuesday, October 30

7:30 a.m. – 11:30 a.m.	Registration, Information Desk, and Virtual Learning Center Open
7:30 a.m. – 8:30 a.m.	Breakfast Open
8:00 a.m. – 11:30 a.m.	Speaker Presentations, Training Courses and Hands-on Workshops
9:00 a.m. – 1:00 p.m.	SAS Demo Area/Vendor Displays Open
11:30 a.m. – 1:00 p.m.	Lunch Break
12:30 p.m. – 3:00 p.m.	Registration & Information Desk Open
1:00 p.m. – 3:30 p.m.	Speaker Presentations, Training Courses and Hands-on Workshops
3:30 p.m. – 4:30 p.m.	Closing Ceremony

2007 Pre-Conference Training Courses

All courses include course notes and materials. See page 11 for instructor biographies.

Instructor: Ben Cochran, The Bedford Group				
ID #01A	DATE:	Friday – 10/26/2007	TIME:	8:00 AM – 4:30 PM Full Day
<p style="text-align: center;">Manipulating Data With Functions and Arrays</p> <p>This course focuses solely on the DATA step and sheds much light on the power and functionality of the many Functions in the SAS System. An in-depth look is given to the Arrays, how to create them, how they work, and how to manipulate data with them. Includes many new SAS9 functions.</p>				

Instructor: Kirk Lafler, Software Intelligence Corporation				
ID #02A	DATE:	Friday – 10/26/2007	TIME:	8:00 AM – 4:30 PM Full Day
<p style="text-align: center;">Advanced SAS® Programming Techniques</p> <p>SAS users who have acquired basic skills presented in a SAS Software Basics course and want to expand their knowledge in the DATA step as a programming language will want to attend the Advanced SAS Programming Techniques seminar. Attendees learn complex programming topics and techniques in the areas of data access, data manipulation, data management, data presentation, and much more. Topics include DATA step programming techniques including reading a variety of file formats; using column and line pointers; specifying system and language options; coding loops, ranges, and arrays; using operators and modifiers; testing and debugging techniques; reshaping columns of data; techniques on managing data; custom report writing techniques; and integrating ODS for improved output.</p>				

Instructor: Ben Cochran, The Bedford Group				
ID #01B	DATE:	Saturday – 10/27/2007	TIME:	8:00 AM – 4:30 PM Full Day
<p style="text-align: center;">Generating Reports With the SAS System</p> <p>This course teaches students how to use several of the SAS procedures (including PROC REPORT) as well as the DATA step (data _null_) to generate reports. Attention is given to understanding data, as well as report requirements. Topics include: Data Preparation, Detail Reports, Summary Reports, Graphic Reports and the Output Delivery System (ODS).</p>				

Instructor: Kirk Lafler, Software Intelligence Corporation				
ID #02B	DATE:	Saturday – 10/27/2007	TIME:	8:00 AM – 4:30 PM Full Day
<p style="text-align: center;">PROC SQL Programming: Beyond the Basics</p> <p>Expand your PROC SQL skills beyond the basics with this Advanced PROC SQL Programming Techniques seminar. Numerous examples of this powerful language will be presented to improve a user's mastery of the language while providing a better understanding of the language details to perform more complicated tasks. Topics include using case expressions, accessing dictionary tables, interfacing PROC SQL with the Macro facility, implementing table integrity constraints, undocumented and hard-to-find PROC SQL features, performing complex queries with joins and set operators, strategies for creating and using views, debugging techniques including many documented and undocumented features, and performance tuning strategies.</p>				

Instructor: Art Carpenter, California Occidental Consultants				
ID #03A	DATE:	Saturday – 10/27/2007	TIME:	8:00 AM – 4:30 PM Full Day
<p align="center">From %Macro to %MEND: An Introduction to the SAS Macro Language</p> <p>This one-day course is designed for the SAS programmer who is new to the Macro Language. We will start at the basics and cover the fundamentals necessary to start applying SAS macros in your programs. By the end of the day you will understand how the Macro Language works, what the Macro Symbol Table is and how to values stored in it, how the SAS System uses Macro Variables, key Macro Language concepts, important SAS Macro Language Functions, and how to invoke Macros in your programs. The example Macros shown in the course materials demonstrate the power and flexibility of this part of the SAS System and will enable you to apply the functionality of the Macro Language to your own programs right away. This session is suited for the SAS user who already has a basic understanding of the Data Step and Procedure Steps, and who is new to the Macro Language facility in SAS System software. It is a beginning-level course that assumes no prior understanding of the SAS Macro Language. It is also suitable for SAS users who want to understand the Macros found in programs then have "inherited" from other programmers.</p>				

Instructor: Morgan Wang, Florida Central University				
ID #04A	DATE:	Saturday – 10/27/2007	TIME:	8:00 AM – 4:30 PM Full Day
<p align="center">Mining – Key element of Business Intelligence and Competing Analytics</p> <p>What are the common factors of the following companies: Netflix, Capital One, Google, and Harrah's Entertainment? The answer is the competing analytics. How to become an analytical computer? What are the key elements of becoming an analytical computer? We will use several examples from marketing and sale perspective to provide answers to above problems.</p>				

Instructor:		Art Carpenter, California Occidental Consultants	
ID #03B	DATE:	Sunday – 10/28/2007	TIME: 8:00 AM – 4:30 PM Half Day
Advanced Techniques in the SAS Macro Language			
This one day course is designed for students with a good understanding of the DATA and PROC steps and who already understand the basic structure and syntax of the SAS Macro Language. The course will start with a short review of the macro basics and quickly move on topics selected to improve your macro language expertise. Several key macro functions will be introduced, explained and demonstrated. Course topics include:			
Macro Language Review		Macro Functions, Using and Creating	
Writing Dynamic Code		Controlling Your Environment	
Working With SAS Data Sets		SAS Macro Libraries	
Miscellaneous Macro Topics			

Instructor: Morgan Wang, Florida Central University				
ID #04B	DATE:	Sunday – 10/28/2007	TIME:	8:00 AM – 4:30 PM Half Day
<p align="center">Decision Tree</p> <p>Decision trees is the easiest and most popular data mining tool. However, it is a powerful tool as well. In many conditions, decision trees is the best tool to use. In this short course, we will discuss the fundamental theory of decision trees and use couple example to illustrate the usefulness of decision trees.</p>				

2007 In-Conference Training Courses (Free!)

All courses include course notes and materials. See page 11 for instructor biographies.

Instructor:	Ben Cochran, The Bedford Group		
ID #01C	DATE:	Monday – 10/29/2007	TIME: 8:00 AM – 11:30 AM Half Day
<p style="text-align: center;">Introduction to Enterprise Guide</p> <p>This course introduces the student to Enterprise Guide, a new product which is a point and click interface to the power and functionality of the SAS system.</p> <p>Enterprise Guide gives the student query tools to access the data needed, analyze the data, and then generate all kinds of reports and graphs from the data... all in a very easy to use interface. This product is a great introduction to the SAS system.</p>			

Instructor:	Morgan Wang, Florida Central University		
ID #04C	DATE:	Monday – 10/29/2007	TIME: 1:00 PM – 4:00 PM Half Day
<p style="text-align: center;">How to Use SAS Enterprise Miner to Solve Business Problems?</p> <p>Enterprise Miner is an excellent tool of data mining provided by SAS Institute. How to use it effectively and how to use it to solve business problems? We use simple examples through health care industry to illustrate.</p>			

Instructor:	Kirk Lafler, Software Intelligence Corporation		
ID #02C	DATE:	Tuesday – 10/30/2007	TIME: 8:00 AM – 11:30 AM Half Day
<p style="text-align: center;">Output Delivery System (ODS) Tips and Tricks</p> <p>Are you looking for ways to improve the way your SAS® output appears? Output Delivery System (ODS) can help turn tired-looking output into great looking information with a purpose. ODS introduces exciting new features for your output. Gone are the days when the only available formatting choice are boring output listings containing lifeless mono space fonts. Using built-in format engines, ODS provides SAS users with a powerhouse of new and exciting capabilities to produce “quality” and publishable output. This presentation will show users how to select only the output of interest using selection lists. Users will then see how ODS is used to send selected output to open output destinations including RTF, MS Excel spreadsheets, PDF, HTML, SAS data sets, XML, as well as traditional output.</p>			

Instructor:	Art Carpenter, California Occidental Consultants															
ID #03C	DATE:	Tuesday – 10/30/2007	TIME: 12:30 PM – 3:30 PM	Half Day												
<div>Quick Results With SAS/GRAPH® Software</div> <p>This half day seminar is designed for students who are familiar with the DATA and PROC steps of base SAS and who want to learn how to use SAS/GRAPH software to produce presentation quality graphs. The course will discuss various aspects of the construction of graphs and will include discussion of plotting and graphing procedures. Statements and options used to enhance the appearance of the graphs will be presented. Course topics will include:</p> <table><tr><td>Graphics Options and Settings</td><td>Graphical options for Titles and Footnotes</td></tr><tr><td>Using PROC GPLOT</td><td>AXIS Statements</td></tr><tr><td>SYMBOL Statements</td><td>LEGEND Statements</td></tr><tr><td>Overlaying Plots</td><td>Using PROC GCHART</td></tr><tr><td>Redisplaying Graphs Using GREPLAY</td><td>An Introduction to the ANNOTATE Facility</td></tr><tr><td>Producing graphs for inclusion into word processing documents</td><td></td></tr></table>					Graphics Options and Settings	Graphical options for Titles and Footnotes	Using PROC GPLOT	AXIS Statements	SYMBOL Statements	LEGEND Statements	Overlaying Plots	Using PROC GCHART	Redisplaying Graphs Using GREPLAY	An Introduction to the ANNOTATE Facility	Producing graphs for inclusion into word processing documents	
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Producing graphs for inclusion into word processing documents																

Instructor Biographies

Art Carpenter

Art Carpenter's publications list includes three books, and over five dozen papers and posters presented at SUGI, and various regional and local user group meetings. Art has been using SAS since 1976 and is a SAS Certified Professional TM. Through California Occidental Consultants he teaches SAS courses and provides contract SAS programming support nationwide.

Ben Cochran

After more than 11 years with SAS Institute in the Professional Services (as an Instructor) and Marketing Departments (as Marketing Manager for the SAS/EIS product), Ben Cochran left to start his own consulting and SAS Training business in the fall of 1996 – The Bedford Group. As an affiliate member of SAS Institute's Alliance Partner Program, Ben has been involved in many teaching and consulting projects over the last 10 years. Ben has authored and presented several papers at SUGI and regional user groups on a variety of topics since 1988.

Kirk Paul Lafler

Kirk Paul Lafler is consultant and founder of Software Intelligence Corporation and has been programming in SAS since 1979. As a SAS Certified Professional and SAS Institute Alliance Member (1996 – 2002), Kirk provides IT consulting services and training to SAS users around the world. Kirk has written four books including *PROC SQL: Beyond the Basics Using SAS* (SAS Institute, 2004), and more than two hundred peer-reviewed articles in professional journals and SAS User Group proceedings. He has been an Invited speaker at more than two hundred SAS user group conferences and meetings at the International, Regional and Local levels. His popular SAS Tips column, "Kirk's Korner of Quick and Simple Tips", appears regularly in the BASAS, HASUG, SANDS, SAS, SESUG, and WUSS Newsletters and Web sites.

Morgan Wang

Morgan C. Wang received his Ph.D. in 1991. Since then he has been with UCF, where he is currently the Director of Institute of Statistics and Data Mining and Professor of the Department of Statistics and Actuarial Science. He has published a book (*Integrating Results through Meta-Analytic Review Using SAS Software*, SAS Institute, 1999), and over 50 papers in referee journals and conferences on topics including interval analysis, meta-analysis, and data mining. He was the first prize-winner in Data Mining Competition of the 11th SIGMOD KDD conference in 2004 and the first prize winner in Data Visualization Contest of SUGI 25 conference in 2000, and was given invited talks for more than fifty times for American Statistical Association, Society for Industrial and Applied Mathematics, Iranian Statistics Association, and many universities around the world. Dr. Wang is an active consultant in data mining and business intelligence. His consulting clients include Walt Disney Company, Blue Cross and Blue Shield of Florida, AAA Auto Club South, Sodexo Campus Services, Florida Department of Health, Institute of Simulation and Training, University of Central Florida, InCharge, and United Space Alliance.



**Learn from
TOP SAS Trainers!**

Hands-on Workshops (Free!)

These workshops will occur on Monday and Tuesday, October 29th and October 30th. Seating is limited and is on a first come, first serve basis.

Monday

8:00 AM - 9:50 AM	Macro Basics: Show Me How to Code Less <i>Dana Rafiee, Destiny Corporation</i>
10:00 AM - 11:30 AM	How Can I Merge Without Sorting? <i>Dana Rafiee, Destiny Corporation</i>
1:00 PM - 2:50 PM	ODS Basics: Let's Understand How to Write ODS Code <i>Dana Rafiee, Destiny Corporation</i>
3:00 PM - 4:50 PM	Tabulate Basics: Why My Brain Doesn't Work That Way <i>Dana Rafiee, Destiny Corporation</i>

Tuesday

8:00 AM - 9:50 AM	List Processing Basics: Creating and Using Lists of Macro Variables <i>Art Carpenter, CA Occidental Consultants</i>
10:00 AM - 11:50 AM	Dynamic Projects in SAS® Enterprise Guide® – How to Create and Use Parameters <i>Lora Delwiche, University of California, Davis</i>
1:30 PM - 3:20 PM	Creating Multi-Sheet Excel Workbooks the Easy Way with SAS® <i>Vince Del Gobbo, SAS Institute</i>

THE VIRTUAL LEARNING CENTER

Destiny Corporation is sponsoring the Virtual Learning Center. Destiny has put their instructor led course materials into a Virtual Learning Environment. Attendees will be able to attend courses and select from over 300 SAS topics. The vDestiny Virtual Learning Environment brings the dynamic classroom to you. This is a totally new and unique way to learn SAS software. Experience the quality and benefits of 'Instructor Led' training from the comfort of the PCs provided by Destiny Corporation. The primary topics offered at this conference are listed below. Come visit us and sign up for a time slot at the Virtual Learning Center!

Topics Available in the Virtual Learning Center:

Version 9: Changes and Enhancements

Introduction to Programming in SAS Software

Programming I SAS Essentials

Programming II: Data Manipulation Using the Data Step

Programming III: Advanced Techniques

Macros in SAS Software

SQL Processing Tips and Techniques

Report Writing: A Programming Approach

Output Delivery System (ODS) Basics

Graphing in SAS Software

Add-In to Microsoft Office: The Word and Excel Interface to SAS Software

Enterprise Guide Querying and Reporting

Enterprise Guide: The Easy Way to Use SAS Software

Note: These are the same, full course topics given in a Destiny instructor led classroom environment, including lecture, software demonstrations, workshop explanations, workshop solutions and instructor support.

Sunday Evening Opening Ceremony Keynote Address

“Keynote: SAS® BI is For You Too!”

Jim Metcalf

R&D Director
Business Intelligence Query and Reporting, SAS Institute

Are you a programmer?

Have you been programming in SAS since garage décor was in vogue?

What does a 30-year old company do for its encore?

We invest a billion dollars and 5000 developer years in a whole new line of software designed to make you more valuable!

Biography

As R&D director of BI query and reporting, Metcalf and his team of developers work to engineer SAS BI query and reporting products – SAS® Web Report Studio, SAS® Information Delivery Portal, SAS® Information Map Studio and SAS® Management Console.

Prior to this role, he was director of SAS Technology Product Management and was actively involved in the release of SAS®9, widely considered the most important software release in SAS history.

Since joining SAS in 1993, Metcalf has served as a software tester for SAS/AF® software and as a software developer for SAS/EIS® software, SAS® Financial Management, SAS® Risk Dimensions® and SAS® OLAP Server.

Prior to joining SAS, Metcalf worked for the Royal Dutch Shell Group of Companies, exploring for oil in the deepwater Gulf of Mexico. While there, he was deepwater leasehold strategist, responsible for selecting well locations and planning Shell's deepwater leasehold disposition. He holds bachelor's and master's degrees in geophysics from the University of Oklahoma, and has been a SAS programmer since 1983.



**OPENING SESSION
IS ON SUNDAY AT 7 PM.**

**ALSO ATTEND CLOSING CEREMONY
ON TUESDAY AT 3:30 P.M.
TO WIN DOOR PRIZES!**

PRESENTATION SECTIONS

Applications Development Section

Simple Rules to Remember When Working with Indexes

Kirk Paul Lafler, Software Intelligence Corporation, Spring Valley, CA (Invited speaker)

Exploring DICTIONARY Tables and SASHELP Views

Kirk Paul Lafler, Software Intelligence Corporation, Spring Valley, CA (Invited speaker)

SAS-with-Excel Application Development: Tools and Techniques

LeRoy Bessler (invited speaker)

How to Implement Security System Using SAS

David Wells, Sinclair Community College

Problems Encountered Converting From a Legacy Reporting System to Data Warehouse Reporting Utilizing SAS BI tools

Kate Glover, Sinclair Community College

Design and Implementation of Operational Dashboards on SAS Information Delivery Portal

Grace Jiang, RCI

Develop, Create and Deploy Sample Custom Tasks in Enterprise Guide

Steve Gunawan, RCI

Passing Data Set Values into Application Parameters

Lingqun Liu, University of Michigan, Ann Arbor

Table Lookups...You Want Performance?

Rob Rohrbough, Rohrbough Systems Design, Inc.

FreqLibname: A Data Review Routine For All Memnames in a Libname

Ronald J. Fehd, Centers for Disease Control, and Prevention, Atlanta, GA, USA

Writing Testing-Aware Programs that Self-Report when Testing Options are True

Ronald J. Fehd, Centers for Disease Control and Prevention, Atlanta, GA, USA

Data Visualization and Graphics Section

Chart Smart: Design and Build SAS Graphs That Inform and Influence

LeRoy Bessler (invited speaker)

Multi-Media Wizardry: How To Make ODS Outputs That “Dance and Sing”

LeRoy Bessler (invited speaker)

How to Make the "Best Choice" from the Many Ways to Create and Deliver SAS Graphs

LeRoy Bessle (invited speaker)

Graphs to Aid in Spectral Analysis

David Meek, USDA Agricultural Research Service

Graphs to Aid in Concordance Analysis

David Meek, USDA Agricultural Research Service

SAS/Graph Annotate Macro Tutorial

Kathy Shelley, Department of Statistics, Iowa State University

Create Flowcharts Using Annotate Facility

Priya Saradha, Gurubaran Veeravel

Statistics and Data Analysis Section

Analyzing Survey Data Using Decision Trees

Morgan C. Wang, Department of Statistics and Actuarial Science, University of Central Florida (Invited Speaker)

Enhance Survey Data Analysis using Text Mining

Morgan C. Wang, Department of Statistics and Actuarial Science, University of Central Florida (Invited Speaker)

Introduction to Logistic Regression

Bob Derr, SAS Institute

How to Use RANDOM and REPEATED Statements in Modeling Covariance Structures in Proc Mixed – Results from a Simulation Study

Charlie Liu, Dachuang Cao, Peiqi Chen, Tony Zagar, Lilly Research Laboratory, Eli Lilly and Company

Fit Your Data into the Freq Procedure and More

Dachao Liu, Lilly Research Laboratory, Eli Lilly and Company

Single Sample Statistical Inference, Illustrated

Richard R Allen, Peak Statistical Services

Novel Use of SAS® Software in Industrial and Biomedical Consulting, Research and Teaching

Timothy E. O'Brien, Loyola University Chicago

Using the WHO Drug Dictionary for Reporting Clinical Trials

Thomas E Peppard, deCODE Genetics, Brighton, MI

Tutorials and Solutions Section

Advanced PROC REPORT: Doing More in the Compute Block

Art Carpenter, California Occidental Consultants, CA (Invited speaker)

Exploring DICTIONARY Tables and SASHELP Views

Kirk Paul Lafler, Software Intelligence Corporation, Spring Valley, CA (Invited speaker)

Using 22 Easy Tricks with ODS to Generate Colorful Reports

Ben Cochran, Bedford Group (Invited Speaker)

44 Tricks with the Format Procedure

Ben Cochran, Bedford Group (Invited Speaker)

How Do You Write a Macro

Hadley Wickham, Iowa State University

Using SAS® to Control and Automate a Multi SAS Program Process

Patrick Halpin, dunnhumby USA, Cincinnati, OH

“Backup Early, Backup Often” - Backup Your SAS® Programs using SAS Display Manager®

Paul D. McDonald, MBA, Overland Park, Kansas

“Backup From the Startup” - Keep a Constant Backup Your SAS® Logs and Listing Output from SAS Display Manager® in Microsoft Windows

Paul D. McDonald, MBA, Overland Park, Kansas

Translating Microsoft Character Date-Time Strings to SAS DATETIME Variables - Reading Microsoft Date-Time Stamped Logs in SAS

Paul D. McDonald, MBA, Overland Park, Kansas

SAS Data Integration Studio – A Primer

Paulinda E. Pangaldan, Idea Integration

SAS Macros for Quick Summary Report and Uppercase All Variables

Craig Balog, Cleveland Clinic

How to Use Proc SQL Select into for List Processing

Ronald J. Fehd, Centers for Disease Control and Prevention, Atlanta, GA, USA

List Processing Basics: Creating and Using Lists of Macro Variables

Ronald J. Fehd, Centers for Disease Control and Prevention, Atlanta, GA, USA

SAS® Present Section

Half-Day Seminar: Modernizing Your SAS Code, or How to Avoid Becoming a SAS Dinosaur

Warren Repole, SAS Institute

* There is no fee to attend SAS seminar. This seminar will be three hours. Seating is limited and is on a first come, first serve basis.

Adapting Your SAS Programs into the SAS 9 Paradigm

Staff, SAS Institute

New SAS Statistical Software: Just Over the Horizon

Bob Derr, SAS Institute

User Written DATA Step Functions

Jason Secosky, SAS Institute

Getting Started with the DATA Step Hash Object

Jason Secosky, SAS Institute

Identifying and Overcoming Common Data Mining Mistakes Using Enterprise Miner

Doug Wielenga, SAS Institute

Best Practices for Managing Predictive Models in a Production Environment

Robert Chu, SAS Institute

Intro TO SAS XML Libname Engine

Staff, SAS Institute

ODS Document

Michelle Ensor, SAS Institute



Exhibit and Demo Room

Be sure to visit the popular Exhibit and Demo Room open Monday from 9:00 a.m. to 11:30 p.m. and 1:00 to 4:00 p.m., and Tuesday from 9:00 a.m. to 1:00 p.m. SAS staff will be on hand to discuss and demonstrate the latest software and services available. Stop by the demo stations to meet SAS developers, demos of SAS solutions, or to ask questions about SAS software. Talk with representatives from SAS service areas such as Publications, Certification and Training, Education, SAS Alliance Partners, Technical Support, and Executive and User Events. While visiting the Demo Room, be sure to register for valuable giveaways.

In addition, the Publications booth in the Demo Area will offer a 20% discount on all SAS documentation ordered at MWSUG 18. Stop by the booth to browse the latest in SAS documentation.

SAS USER APPRECIATION RECEPTION

Be sure to join us Monday afternoon from 4:00 to 5:30 in the Demo Room where you can mingle with other MWSUG attendees and SAS staff while enjoying food and beverages. This reception is provided by SAS as way to thank you, our valuable SAS software users.

SCHOLARSHIP PROGRAM

MWSUG offers scholarship to college student to attend MWSUG conference and/or Pre-conference class for free. For details including application information, please contact Scholarship Coordinator, Kathy Shelley at kathy@iastate.edu.

STAY TUNED IN TO SAS!

By updating your SAS profile often at **www.sas.com/profile**

Your profile establishes a login for use across the SAS Web site. Use this login to pre-fill forms, manage your subscriptions and gain access to restricted site content.

Why should you register?

Because your SAS profile enables you to:

- Subscribe to receive information on Users Group Conferences.
- Subscribe to award-winning **sas**com magazine and a wide variety of SAS e-newsletters.
- Access SAS white papers and Webcasts.
- Save time when logging in since your profile will pre-fill other forms on sas.com.
- Stay informed about SAS publications, training and events.
- Access Self-Paced e-Learning.
- View Technical Support tracks.

Visit: www.sas.com/profile



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POWER
TO KNOW.**

Useful Conference Information

Monday Luncheon: Your registration fee includes lunch Monday. The MWSUG committee has arranged for conference attendees to enjoy lunch at the conference Hotel.

Monday Dinner: Dinner will be provided on the Monday evening at the State Historical Museum.

Dress: Conference attire is business casual. Some speakers may opt for “suit & tie” during their presentations.

Weather: Weather in late October is generally pleasant in Des Moines, although it can vary dramatically. The average high on October 28th is 70 degrees F, while the average low is 48 degrees F. However, late October has seen weather as high as 91 F and as low as 28 F. It is advisable to check weather conditions before coming.

Opening: Listen for special announcements and hear Jim Metcalf, our Keynote speaker. Following the opening session is a reception and mixer.

Closing: Come bid farewell to your colleagues at the closing ceremonies on Tuesday. Listen to final announcements and be eligible for prizes, and meet next year's Conference Committee.

First timers: All may attend this special welcome to first-time attendees. It will be held on Sunday, 5:30 – 6:00 p.m. Bring all of your questions.

Emergency Messages during the Conference: If you need to be reached, have your contact call Des Moines Marriott Downtown and leave a message. Be sure that the caller identifies you as an MWSUG conference attendee. An MWSUG contact will be paged and every attempt will be made to find you.

Job Openings / Positions Wanted: There will be a 3-ring binder available for job openings or position wanted announcements. This notebook will be available near the registration desk. The announcements must be in an 8.5 x 11 plastic sleeve that can be placed in the notebook. Business cards or flyers may be included provided they are in an 8.5 x 11 plastic sleeve. There is no charge for placing announcements in the notebook. We reserve the right to remove announcements placed elsewhere at the conference.

Advertising: Advertisements at the conference must be related to the use of the SAS® System. There is a limited amount of space for vendor displays available on a first-paid basis. For more information on advertising, including deadlines and rates, please contact John Xu at johnxu@1st-consulting.com, Conference Co-Chair. All advertising and displays must be approved prior to the conference. No other selling or recruiting will be permitted within the conference area.

Conference Hotel: Des Moines Marriott Downtown

Marriott Downtown
700 Grand Avenue
Des Moines, Iowa 50309 USA

Phone: 1-515-245-5500

Fax: 1-515-245-5567

Toll-free: 1-800-514-4681

RATES: Single/ Double \$114.00

Reserve Early! Please make your reservations by **October 12, 2007** (subject to room availability) to guarantee this special rate. Rate shown is per night, and does not include state and local taxes.

RESERVATIONS: Please visit www.mwsug.org and follow the link for Hotel Information. Or use the link below with Group Code **MSAMSAA**:
<http://www.marriott.com/hotels/travel/dsmia-des-moines-marriott-downtown/>
You may also make reservations by phone at 1-800-228-9290



SMOKING POLICY: Marriott Hotel is a non-smoking establishment.

As one of the premier luxury hotels near Des Moines Civic Center, Des Moines Marriott Downtown offers so much more than a convenient address in America's Heartland. The Marriott hotel is connected to the Iowa Events Center and Wells Fargo Arena via a skywalk in the heart of the Des Moines business district, close to shopping, restaurants and entertainment. Our stunning guest rooms are designed for the needs of business travelers and feature luxury bedding and high-speed Internet. Dining options range from Allie's American fare to the culinary creations of our banquet chef. The fitness center is well-equipped, and you'll love the sauna and pool. Make any occasion an elegant affair or impressive business meeting with Des Moines Marriott's 25,000 sq ft of function space, which can be modified to meet the most demanding needs. Our hotel also offers catering and event services on and off-site. For the finest hotel near Des Moines skywalk businesses, make your reservations at Downtown Des Moines Marriott.



Visit
Iowa State Capitol
Next to
Historical Museum!

GETTING TO THE CONFERENCE

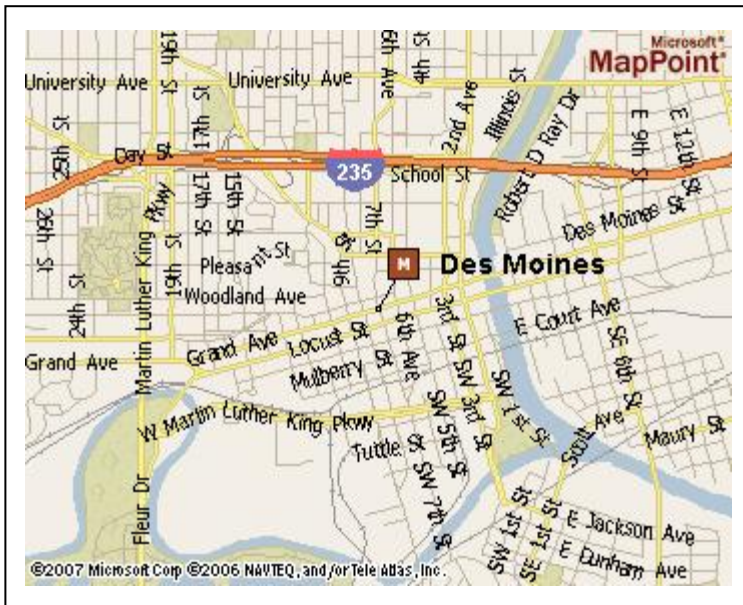
By Air:

There are many cities with direct flight to Des Moines. Des Moines International Airport (DSM) is conveniently located just 4 miles SW from Des Moines Marriott Downtown Hotel. It is recommended that you call for complimentary shuttle provided by the hotel when you arrive at the airport. Taxis fare is estimated at \$20 USD (one way).

Airport Transportation: Complimentary airport shuttle service on request.

Parking: There is a valet parking fee of \$17 USD daily. Or you can use off-site parking. The 7th St and Grand Ave Ramp is just across street for \$7.50 per day on weekdays and free on weekends. Parking at meters is free all weekend, as well as after 6 p.m. during the week.

Driving Direction from Airport: Turn North on Fleur Dr. and go 3 Miles. Turn right on Locust, Left on 6th. Go 1 block to Grand Ave. Turn left on Grand, Go 1 block to hotel.



Driving Directions:

from Airport:

Turn North on Fleur Dr. and go 3 Miles;
Turn right on Locust, Left on 6th Ave;
Go 1 block to Grand Ave;
Turn left on Grand;
Go 1 block to hotel.

from South (Kansas City) or West (Omaha):

Connect to I-235 East;
Take 7th Street Exit. Turn Right;
Go To 7th And Grand.

from North (Minneapolis) or East (Chicago):

Connect to I-235 West;
Take 3rd/5th/7th street exit;
Turn left to 7th Street;
Go To 7th And Grand.

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Visit the Education booth in the demo area to learn more about our solutions, services and programs!

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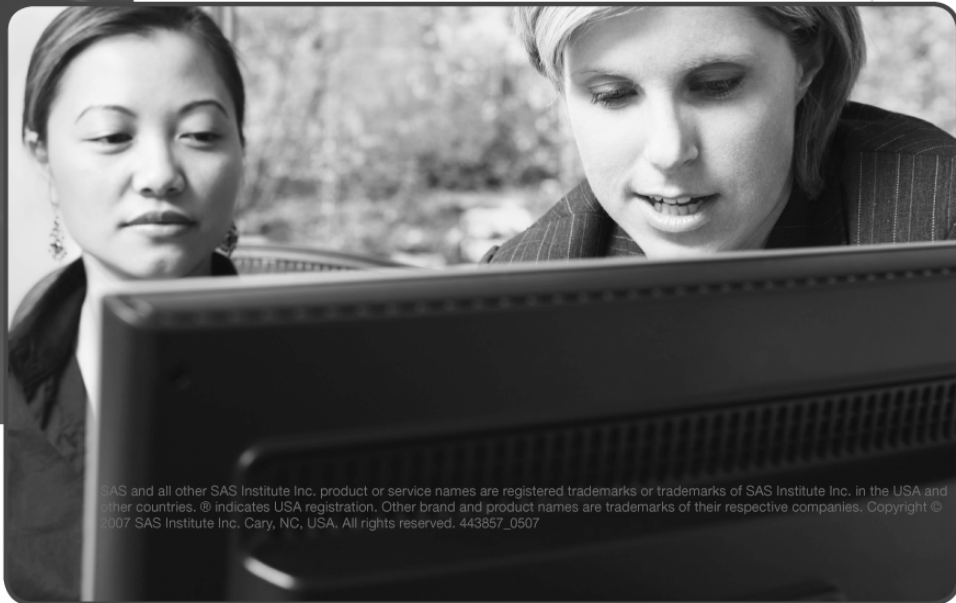
support.sas.com/training/us

Learn how to set yourself apart from the competition with the SAS® Global Certification Program

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- » Learn the many benefits afforded to SAS Certified Professionals.
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TO KNOW®**



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REGISTRATION DETAILS

Registration Fee: Early registration fee is \$295 per person. Forms may be mailed, or submitted to the online registration system. Fees must be received by September 21, 2007, to receive the discount. Regular registration fee is \$345 per person and must be received by October 12, 2007. After that, and including on-site registration, the fee is \$425 per person.

All conference attendees are required to complete a registration form. Registration fee for presenters will be half price (\$148), and must be received by September 21, 2007.

Students and Faculty: Student and faculty registration fee is \$148 per person and must be received by September 21, 2007. After that date, students and faculty will pay the regular or on-site registration rate. In order to receive the academic rate, students must be enrolled full-time at an accredited academic institution, must register by September 21, 2007, and must FAX copies of their Student ID cards and current term's course registration to Delayne Stokke at (515) 213-5115. Faculty members must FAX a copy of his/her valid College or University faculty ID card to Delayne Stokke at (515) 213-5115. All supporting documents must be received by September 21, 2007, in order to receive the discount.

Group Discounts: For every 10 paid registrations, MWSUG will provide 2 free ones for the corporate discount. Please contact johnxu@1st-consulting.com for details.

Forms of Payment: MWSUG accepts money orders, personal or company checks, and the following credit cards: Master Card, Visa, American Express, and Discover/Novus. We do not accept purchase orders nor do we prepare invoices.

Receipts: A confirmation email will serve as a receipt and will be sent within 10 days to those registering by the regular registration deadline. Receipt requests will be accepted at the registration desk and processed within 30 days from the conclusion of the conference. Please note, the online registration system provides valid receipts. Please contact conference registrar Michael Bramley, michael.bramley@us.dunnhumby.com, with questions.

MWSUG Tax ID: A 1099 form with applicable tax-id is available if requested by October 12, 2007.

Registration Refunds: Written requests for refunds will be honored with a \$25 cancellation fee per person when the request is postmarked by the regular registration deadline (October 12, 2007). Refunds will be processed within 6 weeks after the conference. Fax and email requests for refunds will not be accepted. No refund will be made for cancellations after the regular registration deadline, although a paid registration may be transferred to another person. The deadline for transferring registrations is Monday, October 12th. Please contact the registrar for the correct process by which to do this.

Food: The registration fee includes refreshments at the Sunday evening reception, continental breakfasts on Monday and Tuesday, lunch on Monday, and dinner at the State Historical Museum on Monday evening (including transportation). There will be a cash bar at the Sunday evening reception. All events with food will have vegetarian items included. If you have other dietary needs, please indicate this on the registration form. All special requests made in advance will be brought to the attention of the event chef who will determine how these needs are met.

Guest Passes: Guest passes for the Sunday evening Opening Ceremony, the Sunday evening reception and mixer, the Monday lunch, and the Monday evening at the State Historical Museum (including transportation). See the registration form.

Nametags: Your nametag will be your admission to the entire conference. It is required to attend the presentations and mixers and serves as your ticket for lunches and other meal breaks. It is mandatory for admission to the Exhibit and Demo Area. Please wear your nametag in a visible location during the conference. All Conference participants must be registered, and only properly registered participants will receive a nametag. Replacement nametags can be purchased on site at the registration desk.

REGISTRATION DETAILS CONTINUED

Pre-MWSUG 18 Training Opportunities: We are pleased to again have several well-known SAS® System experts present full and half-day training seminars in conjunction with this year's conference. You can register for these sessions directly on the MWSUG conference registration form. MWSUG attendees receive a discount on tuition for these popular sessions. Also, the conference hotel lodging rate is available if you want to come to Des Moines, before or stay here after the conference, to attend these courses.

Refunds/Cancellations Policy for Training: MWSUG will not refund payments for seminar registrations unless:

(a) The registration was made in error, and the registrant reports that error to MWSUG in accordance with whatever policies MWSUG implements for such situations; (b) The request for refund is made on or before the cut-off date on which an attendee can request refund of their conference registration fee; (c) The attendee is recalled to active military service after registration for the seminar(s), and the registration cannot be transferred to another person; (d) Other compassionate grounds exist, which, in the joint opinion of the MWSUG 18 conference chairs and the affected instructor, warrant a refund; (e) The seminar is cancelled for any reason whatsoever, and the registered attendee declines to transfer their enrollment to another seminar offered in conjunction with MWSUG 18; (f) unless a refund is granted due to compassionate circumstances, no refunds will be made if a registered attendee does not attend the class.

Training Seminar Cancellation: A seminar may be cancelled if there are four or fewer paid attendees enrolled as of October 12, 2007. Absent emergency or other unforeseen circumstances, all seminars for which there are five or more paid attendees as of October 12, 2007, will be held.

Transfer of Enrollment from One Training Seminar To Another: Enrollments can be transferred without penalty from one person to another, at the request of the registrant or registrant's employer, if the request is received on or before October 12, 2007. If a seminar is cancelled due to insufficient enrollment, instructor illness, or other reason, persons registered for that seminar will be encouraged to transfer their enrollment to another seminar offered in conjunction with MWSUG 18, if feasible. Cancellation of a training seminar, for whatever reason, is not grounds for refund of attendee's conference registration fees or tuition of other seminars.

Registration Form

In order to facilitate processing your registration, please:

- complete a separate registration form for each person;
- be complete and write legibly (incomplete or illegible forms may not be processed);
- complete both sides;
- include payment, make a copy for your records;
- sign credit card authorization, if applicable;
- Contact John at johnxu@1st-consulting.com for discount for group with 10 or more attendees.

Visit our web site at <http://www.mwsug.org> to register on-line!

First Name	Middle Initial	Last Name
Company/Affiliation		
Address 1		
Address 2		
City		
Phone		
email		

Conference registration fees

Early (by September 21) _____ @ \$295 each
 Regular (by October 12) _____ @ \$345 each
 Late/On-Site (after October 12) _____ @ \$425 each
 Presenter (by September 21) _____ @ \$148 each
 Student/Faculty (by September 21) _____ @ \$148 each

Guest Passes

Sunday evening activities _____ @ \$35 each
Monday lunch _____ @ \$35 each
Monday Evening dinner/museum _____ @ \$50 each

Total Amount Enclosed \$ _____

Method of Payment (please circle one)

Check or money order (payable to MidWest SUG), American Express, MasterCard, Visa, Discover/NOVUS

If paying by credit card:

Card #
Expiration Date
Name on Card
Signature

Pre-Conference Training Courses

With conference
registration

Without conference
registration

Friday

01A Manipulating Data With Functions and Arrays
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

02A Advanced SAS® Programming Techniques
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

Saturday

01B Generating Reports With the SAS System
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

02B PROC SQL Programming: Beyond the Basics
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

03A From %Macro to %MEND: An Introduction to the SAS Macro Language
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

04A Predictive Modeling
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

Sunday

03B Advanced Techniques in the SAS Macro Language
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

04B Decision Tree
 8:00 AM – 4:00 PM _____ \$320 _____ \$400

* Class registration fee also covers lunch

Send completed form with payment to:

Michael Bramley
 302 W. 3rd Street, Suite 300
 Cincinnati, OH 45202

See Page 18 for Hotel reservation information. Please book your hotel room by October 12 for best rate.



- ☐ Check here if you have any special dietary needs or require any special assistance. The registrar will contact you for details.
- ☐ Check here if you do not wish to have your e-mail address added to the MidWest SAS Users Group mailing list. This list is only used to send notification of official MWSUG events.

Please answer the following questions to help us improve our conference planning. Answers should be based on your current plans, which we understand may change.

Transportation to conference: Accommodations:

- ☐ Drive ☐ Stay at conference hotel
- ☐ Fly ☐ Commute from home
- ☐ Train or other local transit ☐ Other (stay with friends, another hotel)

In order to plan these events please indicate your planned participation.

Do you plan to attend the:

- Sunday opening session and mixer? ☐ Yes ☐ No
- Monday Luncheon? ☐ Yes ☐ No
- First Timers' Session on Sunday? ☐ Yes ☐ No

Please indicate which of the following are your top three interests.

Use "1" for your first choice, "2" for your second, and "3" for your third.

Applications Development _____

Database Management _____

Data Mining _____

Data Warehousing _____

Information Systems _____

Information Visualization _____

JMP _____

Statistics _____

Systems Architecture _____

Training/Support _____

Tutorials _____

Hands-On Tutorials _____

Internet Technologies _____

Please indicate which MidWest SAS Users Group Conferences you have attended.

- ☐ Minneapolis (1990)
- ☐ Chicago (1991)
- ☐ Kansas City (1992)
- ☐ Indianapolis (1993)
- ☐ Omaha (1994)
- ☐ Cleveland (1995)
- ☐ Minneapolis (1996)
- ☐ Chicago (1997)
- ☐ St. Louis (1998)
- ☐ Columbus (1999)
- ☐ Detroit (2000)
- ☐ Kansas City (2001)
- ☐ Indianapolis (2002)
- ☐ Minneapolis (2003)
- ☐ Chicago (2004)
- ☐ Cincinnati (2005)
- ☐ Detroit (2006)

How long have you been using SAS? _____ years

Do you plan to attend Monday night dinner at Historical Museum (free with registration)? ☐ Yes ☐ No