

The 3rd Annual  
WUSS Conference  
at  
Long Beach  
1995

PROCEEDINGS

# WU...SS 95

**Proceedings**  
of the  
Third Annual  
Western Users of SAS Software  
Regional Users Group Conference

Long Beach, California  
September 27-29, 1995

**Conference Cochairs**  
Ginger Carey, University of Hawaii  
Art Carpenter, CALOXY

## Western Users of SAS Software Proceedings

These Proceedings were prepared by the Western Users of SAS Software 1995 Conference Committee with Helen Carey as the publications coordinator. SAS Institute prints these Proceedings as a record of the Western Users of SAS Software (WUSS) 1995 Conference. Neither SAS Institute nor WUSS can take responsibility for the accuracy or the originality of this material.

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Proceedings of the Third Annual Regional Conference  
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To order copies, contact:  
Art Carpenter  
CALOXY  
4239 Serena Avenue  
Oceanside, CA 92056-5018  
phone: 619-945-0613  
email: 72212.211@compuserve.com

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# Forward

**Conference Chairs**

Ginger Carey  
Art Carpenter

**Conference Committee**

Facilities: Kim LeBouton  
Publications: Helen Carey  
Registration: Louise Weiler

Forward

### **Proceedings**

The Western Users of SAS Software Regional Users Group proudly presents these Proceedings from the Third Annual WUSS Conference. WUSS '95 was held from September 27 to 29, 1995 at the Hyatt Regency Long Beach in Long Beach, California. SAS users from California, Arizona, Hawaii, Nevada, Colorado, Wisconsin, New Mexico, Connecticut, Utah, Maryland, Kansas, New Jersey, and North Carolina gathered to find out "What's Up, WUSS?"

Ginger Carey, an applications software specialist at the University of Hawaii, was the Operations Chair, and Art Carpenter, a consultant with CALOXY, was the Program Chair. Of the 65 papers presented at the conference, the full papers of 57 presentations are found in these Proceedings.

### **WUSS Executive Committee**

The Western Users of SAS Software (WUSS) was chartered by the Executive Committee (EC) of the SAS Users Group International (SUGI) in 1993. SAS users in the states of California, Hawaii, and Nevada are the charter members of WUSS. Arizona applied for membership and was voted in by the WUSS EC and the SUGI EC in 1994.

At WUSS '94, Carol Bogardus was elected as the WUSS EC secretary by the conference attendees. At WUSS '95, the attendees elected a WUSS EC member to serve as liaison to local and in-house users groups.

During the past year, the EC completed writing the WUSS Bylaws. The Bylaws are printed at the end of this publication. By

reading the Bylaws, you will learn more about the structure and purpose of WUSS.

During the upcoming year, the plans of the EC include writing a policy manual and providing more support to the local and in-house users groups. Comments and suggestions to help the EC make improvements to the region and to the annual conference are welcomed and appreciated. Volunteers to help with the conference are always needed.

### **Past Conferences**

The Inaugural WUSS conference was held in October 1993 at the Loews Santa Monica Beach Hotel. WUSS '93 was attended by 292 SAS users. The President of SAS Institute, Dr. Jim Goodnight, gave the Inaugural Keynote Address. The cochairs of WUSS '93 were Tracy Cermack and Claire Castell.

WUSS '94 was held in San Francisco in October 1994 and was attended by 481 SAS users. At WUSS '94, Barrett Joyner, the Institute's Vice President of North America Sales and Marketing, gave the Keynote Address and was the Master of Ceremony for the first annual WUSS Bowl. The cochairs of WUSS '94 were Marian Oshiro and Sandy Thurman Bauer.

### **WUSS '95**

WUSS '95 built on the successes of the previous two conferences. Comments on the WUSS '94 User Feedback Form played an important role in showing us ways to improve the conference. As an example, the coffee breaks generated the most comments. Therefore, this year we added an 8:30 a.m. coffee break with bakeries and improved the mid-morning and afternoon breaks.

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Other improvements were made by Gerald Nakashima, the graphics designer for WUSS '95. Gerry's creative WUSS '95 logo design, his clean and consistent layouts for the publications, his humorous mascot, and his fun slogan added to the conference.

The Conference Committee and staff worked on WUSS '95 for ten months. Publications coordinator Helen Carey, facilities coordinator Kim LeBouton, registrar/treasurer Louise Weiler, special events coordinator Ken Kulpa, and desktop publishing assistant Eva Tam consistently and generously gave their hard work, creativity and persistence to WUSS '95.

The keynote speaker at the Welcoming Session was Keith Collins, a Research and Development Strategist at SAS Institute. Keith's talk, *What the Future Holds*, provided us with the latest information on the development activities at the Institute. Keith described some of the feature and functionality enhancements that will be delivered in the coming months, and others that will be part of Version 7, the next generation of the SAS System.

Also during the Welcoming Session, Tim Lehman, the Western Regional Manager for the Institute, presented an online demonstration of some of the latest enhancements. The Welcoming Session concluded with the fun-filled WUSS Bowl with the Institute's own fun-filled guy, Rick Langston as Master of Ceremony.

WUSS Happening, a dinner buffet, music, dancing, door prizes, a southern California evening by the hotel lagoon, and people talking about what's happening with themselves and

with their uses of the SAS System concluded the opening day events for WUSS '95.

Throughout the two and a half days of the conference, WUSS '95 attendees found out what's up with the SAS System by attending paper presentations in six sections, a Video Theater, Formal Online Demos, a Vendor Demo Area, Birds-of-a-Feather Sessions, and Roundtable Discussions.

Several organizations provided support and assistance to the conference which made it possible to keep the registration fees low and provide a quality conference. We would like to gratefully acknowledge the generous support of the organizations listed below.

CALOXY  
RAND  
SAS Institute Inc.  
Trilogy Consulting Corp.  
University of Hawaii

We would also like to thank some people at SAS Institute for the support and guidance which they provided. Their support has been essential to the success of WUSS '95. Sally Roberson, the Senior Users Group Liaison, and Tim Lehman, the Western Regional Manager, were always responsive, patient, and helpful as we prepared for WUSS '95.

Also essential to the conference are the speakers, section chairs, session coordinators, and attendees. Thank you for your participation and for attending WUSS '95. The conference planners hope the benefits to you were more than you expected.

We look forward to seeing you in San Francisco for WUSS '96.

Ginger Carey & Art Carpenter  
*WUSS '95 Cochairs*

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## Conference Planners

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### **WUSS '95 Conference Chairs**

Ginger Carey  
University of Hawaii

Art Carpenter  
CALOXY

### **Conference Committee**

Facilities:  
Kim LeBouton  
Toyota Motor Sales USA, Inc.

Publications:  
Helen Carey  
Independent Consultant

Registrar/Treasurer:  
Louise Weiler  
Pacific Gas & Electric

### **Conference Staff**

Special Events:  
Ken Kulpa  
Trilogy Consulting Corp.

Graphics Design:  
Gerald Nakashima

PageMaker® Layout & Text Entry:  
Eva Tam

### **Site Selection Committee**

Sally Carson  
RAND

Tracy Cermack  
American Honda Motor Co.

### **SAS Institute Coordinators**

Sally Roberson  
SAS Institute Inc.

Tim Lehman  
SAS Institute Inc.

### **Section Chairs**

Applications Development:  
Steve Wilson  
Resource Biometrics

Coders' Corner:  
Don Carver  
Don Carver Consultants

Data Presentation:  
Jack Hamilton  
HealthCare Compare Inc.

Sy Truong  
Sy Truong Consulting

Roundtables:  
Naree Sukumoljan  
Amgen, Inc.

Statistics and Research:  
John Groves  
Cal Poly State University

Paul Thomas  
Douglas Aircraft Co.

Training and User Support:  
Iva MacLennan  
RAND

Tutorials:  
Marv Lindsey  
CSU Chancellor's Office

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## Executive Committee

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**EC Chairs 1994-1995**

Sally Carson  
RAND  
*SUGI 84 Chair*

Marty Rosenberg  
Majaro InfoSystems, Inc.  
*SUGI 90 Chair*

**EC Chairs 1995-1996**

Claire Castell  
Wells Fargo Bank  
*WUSS 93 Cochair*

Tracy Cermack  
American Honda Motor Co.  
*WUSS 93 Cochair*

**Secretary**

Carol Bogardus  
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**Newsletter Editor**

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Sandy Bauer  
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Ginger Carey  
University of Hawaii  
*WUSS 95 Cochair*

Art Carpenter  
CALOXY  
*WUSS 95 Cochair*

Tim Lehman  
SAS Institute Inc.  
*SAS Representative*

Marian Oshiro  
RAND  
*WUSS 94 Cochair*

**Users Group Liaison**

To be elected at WUSS 95

**SUGI Liaison**

Helene Cavior

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## Upcoming Conferences

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**WUSS '96**

September 4 - 6, 1996

Hotel: Grand Hyatt San Francisco on Union Square

City: San Francisco, California

**WUSS '97**

October 22-24, 1997

Hotel: Sheraton Universal Hotel

City: Universal City, California

**SUGI 21**

March 10-13, 1996

Hotel: Chicago Hilton and Towers

City: Chicago, Illinois

**SUGI 22**

March 16-19, 1997

City: San Diego, California

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## WUSS '94 Best Contributed Papers

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In each section with contributed papers, one paper is selected as the best contributed paper. Papers are judged on originality, importance, work involved and presentation. The WUSS Executive Committee congratulates and commends the following authors and presenters of the WUSS '94 best contributed papers.

### APPLICATIONS DEVELOPMENT

**Using SAS/AF<sup>®</sup>, SAS/FSP<sup>®</sup> and SCL to Create a User-friendly Data Entry System**

*Elizabeth Li, Kaiser Permanente Division of Research*

### CODERS' CORNER

**A Program for Fixing SAS Transport Files on Personal Computers**

*Glenn H. Itano, Pomoxis Systems*

### DATA PRESENTATION

**How to Print SAS/GRAPH<sup>®</sup> Output from MVS on Printers Connected to a LAN Using TCP/IP**

*Marvyn M. Lindsey, The California State University*

### STATISTICS

**The Use of SAS<sup>®</sup> Regression Procedures in Analyzing a Major Sporting Event: The Case of the 1994 Masters Tournament**

*William Orzech, U.S.A.F. Department of Defense, Los Angeles  
Joseph Earley, Loyola Marymount University*

### TRAINING AND USER SUPPORT

**Techniques to Avoid: What Momma Should Have Told you About SAS/GRAPH<sup>®</sup>**

*Arthur L. Carpenter, CALOXY*

# Applications Development

**Section Chair**

Steve Wilson

**Session Coordinators**

Diana Ahlem

Claire Castell

Miriam Cisternas

Trish Daniels

Sunil Gupta

Mary Katz

Ed Lee

Robin Mogavero

Betty Shin

Barry Susman

Karen Walker