



The Southern California STATISTICIAN

❖ Meeting Memo and Newsletter ❖

Vol 18 No 4

Southern California Chapter American Statistical Association

January 1981

JANUARY MEETING ANNOUNCEMENT

LOS ANGELES

WHO: Girma Wolde-Tsadik
Associate Professor
Department of Community Medicine
Charles R. Drew
Postgraduate Medical School

TOPIC: "Sample Sizes in the Interval
Estimation of the Correlation
Coefficient"

WHEN: Thursday, January 22, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Speaker

PRICE: \$9.25
\$6.00 for full-time students

DINNER RESERVATIONS: Please place your
reservations with Bruce Hodge at
(213) 741-4480 by Tuesday, Jan. 20.

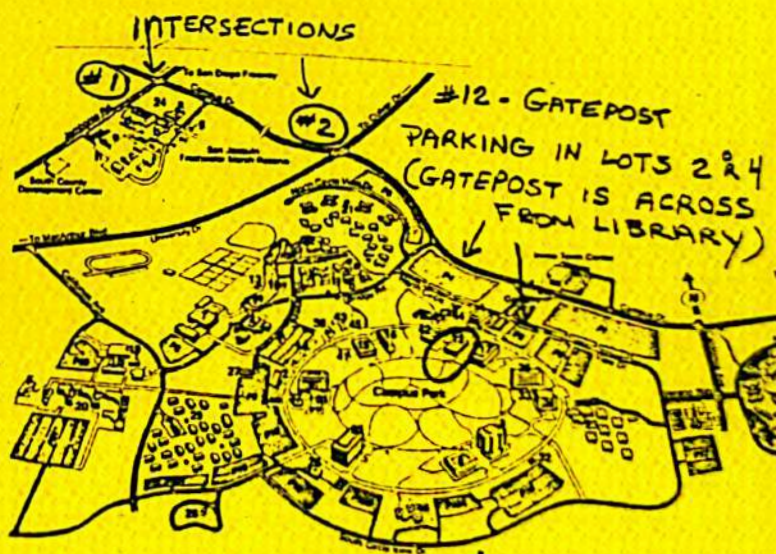
WHERE: UC Irvine Gatepost Restaurant,
located in Gateway Commons.
Free parking in Lot 4;
Metered parking in Lot 2.

DIRECTIONS: Take the San Diego Freeway
(405) to UC Irvine.
FROM LOS ANGELES: Exit on Jamboree
Rd., turn right on Jamboree, proceed
to Campus Drive (1 mile), turn left
on Campus Drive (circled intersection
#1 on map):
FROM SAN DIEGO: Exit on University
Drive, turn left on University Drive,
proceed to Campus Drive (5 miles),
turn left on Campus Drive (circled
intersection #2 on map):
REFER TO MAP FOR FURTHER DIRECTIONS.

THE SPEAKER AND HIS TOPIC

GIRMA WOLDE-TSADIK is Associate Pro-
fessor in the Department of Community Med-
icine, Charles R. Drew Postgraduate medical
School, Los Angeles. He received his grad-
uate training in Biostatistics at the Uni-
versity of California, Los Angeles, earning
an M.S. and Ph.D degrees. His publications
have appeared in Biometrics, Technometrics,
JASA and the American Statistician. His re-
search work has been in the areas of Discrim-
inant Analysis, Analysis of Variance, Correl-
ation Analysis and Regional Health Information
Systems.

Dr. Wolde-Tsadik's talk is directly
related to his article appearing in the Nov-
ember issue of the American Statistician.



VISITING LECTURERS IN STATISTICS

The Visiting Lecturer Program, sponsored by the Committee of Presidents of Statistical Societies, is designed to provide information to students and college faculty about the nature and scope of modern statistics as well as advice about careers and academic opportunities in statistics. Leading teachers, researchers and consultants are available to lecture on a wide variety of topics. A detailed brochure is available that explains how your department can participate in the program. Write to:

Barry C. Arnold, Chair, VLP
Department of Statistics
University of California, Riverside
Riverside, CA 92521

A BRIEF ABSTRACT OF DR. WOLDE-TSADTK'S TALK FOLLOWS:

One approach to the determination of required sample sizes is through the prespecification of the length of the confidence interval estimator of a parameter and the associated confidence level. Under bivariate normal assumptions, the length of the interval estimator of the correlation coefficient, ρ , depends on the observed sample correlation coefficient, r . The maximum length of the interval for a fixed sample size is achieved when r equals zero.

In the absence of any knowledge of the magnitudes of r and ρ , the minimum attainable precision can be derived and used to develop a formula for the required sample size. An approximation will also be introduced and shown to be as good as, if not better than, that of Fisher.

EDITOR'S NOTICE

In an attempt to conserve Chapter resources, we are planning to send next month's Newsletter via 3rd class mail. Past experience with this mail service has resulted in a lot of variance in delivery time. So please mark the date of next month's meeting on your calendar NOW:

WHEN: February 26, 1981
PLACE: UC Riverside

If you receive your February Newsletter later than the Friday before the Chapter meeting (Feb. 20th), please let me know so we can plan for future mailings.

Write to: Pat Grantham
5612 Verano Place
Irvine, CA 92715

Or call: (714) 955-3489

CHAPTER OFFICERS

Los Angeles Area

President: Paul Baum, CSUN
Vice-President (Academic): Albert Kinderman, CSUN
Vice-President (Professional): Bruce Hodge, Auto Club of So. California
Treasurer: Suzanne Lucas, Hughes Aircraft Co.
Secretary: Rebecca Riggs, UC Irvine

San Diego Area

Chairman: Eugene W. Sibbald, San Diego
Secretary: Robert Riffenburgh, Naval Ocean Systems Center

SOUTHERN CALIFORNIA CHAPTER

**American
Statistical
Association**



The Southern California STATISTICIAN

❖ Meeting Memo and Newsletter ❖

Vol 18 No 5 Southern California Chapter American Statistical Association February 1981

FEBRUARY MEETING ANNOUNCEMENT

LOS ANGELES

- WHO:** Jerome Spanier
Professor of Mathematics
Director, Mathematics Clinic
Claremont Graduate School
- TOPIC:** "Statistical and Non-Statistical
Methods in Numerical Analysis"
- WHEN:** Thursday, February 26, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Speaker
- PRICE:** \$9.25
\$6.00 for full-time students
- DINNER RESERVATIONS:** Please place your
reservations by Tuesday, Feb. 24,
at one of the following numbers:
LOS ANGELES AREA: call Bruce
Hodge at (213) 741-4480;
IRVINE AREA: call Bob Newcomb's
secretary at (714) 833-5979;
RIVERSIDE AREA: call Virginia Broach
at (714) 787-3776.
- WHERE:** UC Riverside University Center,
Parking in Lots 6 and 7.
- DIRECTIONS:** FROM LOS ANGELES: Take
Rte. 60 directly to UC Riverside.
Exit on University Ave. offramp.
FROM ORANGE COUNTY: Take Rte. 91,
turn East on Rte. 60/395. Exit
on University Ave. offramp.
REFER TO MAP FOR FURTHER DIRECTIONS.
MAP ON BACK PAGE

CHECK YOUR NEWSLETTER MAILING LABEL

If there have been any changes in your
address or phone number, please send the corr-
rections to Rebecca Riggs at the address shown.
The mailing list is in the process of being
updated, and your assistance would be greatly
appreciated.

THE SPEAKER AND HIS TOPIC

JEROME SPANIER is Professor of Mathematics
and Director of the Mathematics Clinic at
Claremont Graduate School. He received his PhD
in Mathematics from the University of Chicago.
He has been a Visiting Professor at Clemson and
Oxford Universities, Group Leader of the Math-
ematics Group at The North American Rockwell
Science Center, and Advisory Mathematician at
the Bettis Atomic Power Laboratory, Westing-
house Electric Corporation.

Dr. Spanier has published in the Society
for Industrial and Applied Mathematics Review,
Mathematics of Computing, and the SIAM Journal
of Applied Mathematics. He has chaired the
Symposium on Applied Probability and Monte
Carlo Methods, SIAM National Meeting, and is a
member of the Editorial Board, Journal of Stat-
istical Physics and the Journal of Mathematical
Modeling.

A brief abstract of Dr. Spanier's talk
follows:

"Classical" Monte Carlo methods for estim-
ating multidimensional integral rely on probab-
ilistic arguments and produce statistical error
estimates. Partly for philosophical reasons
and partly for mathematical ones, completely
deterministic methods have evolved for treating
the same problems. These techniques will be
contrasted, and advantages and disadvantages of
each will be discussed.

UPCOMING MEETINGS

Los Angeles Area
WHEN: Thursday, March 26, 1981
JOINT MEETING WITH ORSA/TIMS
WHERE: University of Southern California
SPEAKER: Bennett Lientz

San Diego Area
WHEN: Friday, March 27, 1981
Speaker and location to be announced in next
month's newsletter.

CORRECTION

In the last newsletter, Paul Baum was incorrectly listed as the current Chapter President. Milton Brown is this year's President, and Paul will assume the office next year. The list of Chapter Officers should have read as follows:

Los Angeles Area

President: Milton Brown, Executive Life Insurance Co.

President-Elect: Paul Baum, CSUN

Vice-President (Academic): Albert Kinderman, CSUN

Vice-President (Professional): Bruce Hodge, Auto Club of Southern California

Treasurer: Suzanne Lucas, Hughes Aircraft Co.

Secretary: Rebecca Riggs, UC Irvine

San Diego Area

Chairman: Eugene Sibbald, San Diego

Secretary: Robert Riffenburgh, Naval Ocean Systems Center

CAREER DAY IS APRIL 23rd

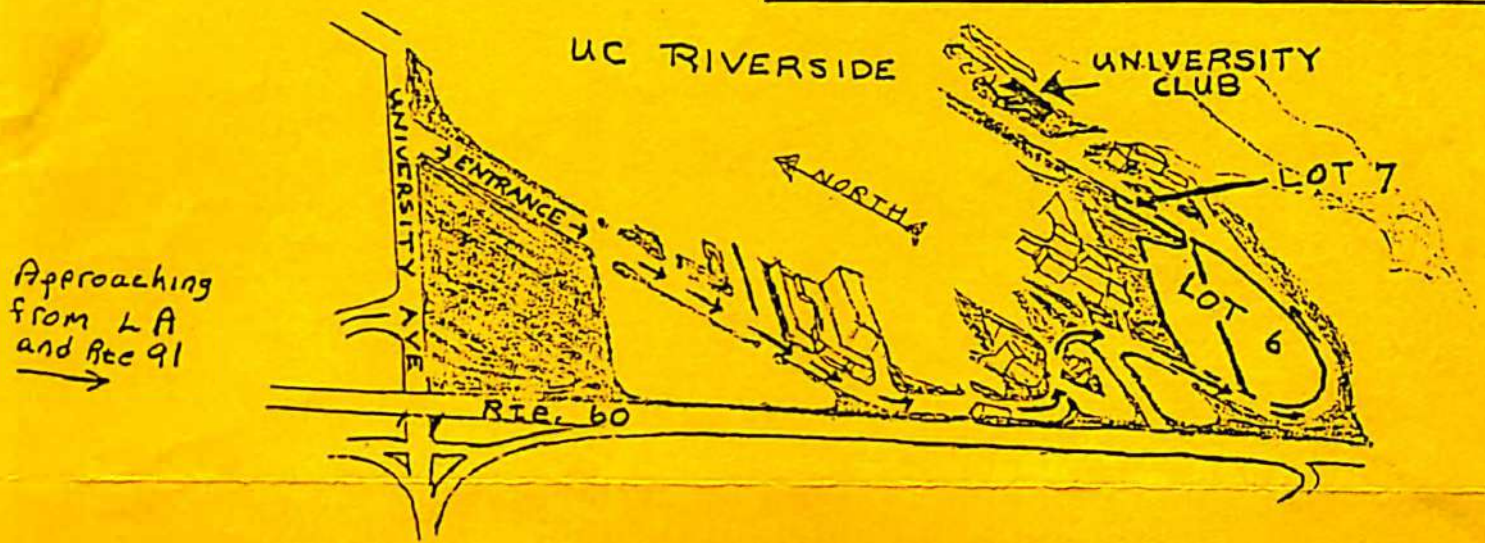
Career Day is the Chapter's annual event that gives students an opportunity to explore various career choices available in the field of Statistics. Students are invited to attend morning or afternoon sessions at the places of employment of participating professional members.

Faculty members, students and Career Placement personnel who are interested in coordinating their campus' participation should contact either Al Kinderman at (714) 885-2470, or Rebecca Riggs at (714) 551-2798.

TRANSPORTATION

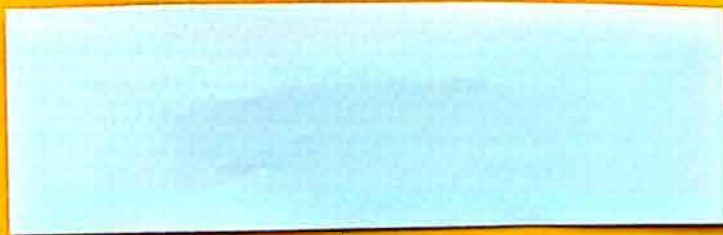
Transportation to this month's meeting is available in the Irvine area by contacting Bob Newcomb's secretary at (714) 833-5979, no later than Tuesday, Feb. 24th.

Members interested in carpooling to upcoming meetings can contact Pat Grantham at (714) 955-3489 to have your information in the next newsletter.



SOUTHERN CALIFORNIA CHAPTER

**American
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The Southern California STATISTICIAN

❖ Meeting Memo and Newsletter ❖

Vol 18 No 6

Southern California Chapter American Statistical Association

March 1981

MARCH MEETING ANNOUNCEMENT

LOS ANGELES

WHO: Bennet P. Lientz
Professor, Vice-Chairman
Graduate School of Management
UCLA

TOPIC: "Home Computing - A Realistic View"

WHEN: Thursday, March 26, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Speaker

PRICE: \$9.25
\$6.00 for full-time students

DINNER RESERVATIONS: Please place your reservations with Bruce Hodge at (213) 741-4875 by Tuesday, Mar. 24.

WHERE: USC Faculty Center, Rooms A,B,C.
645 W. Exposition Blvd.
(Entrance on Figueroa)
(213) 741-6661
\$1.50 Parking Fee

THE SPEAKER AND HIS TOPIC

BENNET P. LIENTZ received his Ph.D. from the University of Washington in 1968. He is currently Professor and Vice-Chairman of the Graduate School of Management at UCLA. From 1978-1980, he was Director of Administrative Computing at UCLA, in addition to his academic position. He previously was Assistant and Associate Professor at the University of Southern California. He has written five books and over fifty articles in statistics and information systems including: An Introduction to Distributed Systems (Addison-Wesley, 1981) and Software Maintenance Management (Addison-Wesley, 1980).

(See Page 2 for the Speaker's Abstract)

SAN DIEGO

WHO: Panel Consulting Hour

WHEN: Friday, March 27, 1981
6:00 - Drink
7:00 - Eat
8:00 - Meet

WHERE: Copper Skillet
877 Hornblend (Pacific Beach)
Easy Parking

MENU: BBQ Ribs or Teriyaki Chicken

PRICE: Vicinity \$6.00,
\$2.00 meal cost reduction for students

WHO'S INVITED: Spouses, friends, students

RESERVATIONS: Please place your reservations with Bob Riffenburgh at (714) 225-7911 by Tuesday, March 24.

The San Diego Section will hold a panel consulting hour at its next meeting. In this experimental format, three persons will pose statistical problems they are meeting in their professions and a panel of three statisticians will suggest approaches to solution, with a 20-minute maximum for each topic. Participation from the audience will be encouraged. Problems/statistical areas include: nerve-cell behavior generated by microwave radiation/exploratory time-series analysis; finding effect of power supply voltage change on mixed populations of users/multivariate regression, testing, or discrimination; and measuring morale effects of a personnel experiment from self ratings/rank-order methods or linear models. Something for everyone! Come to hear, marvel and kibbitz.

American Statistical Association

A Brief Abstract of Dr. Lientz's Talk:

The use of computers in the home and small business environment is widely perceived as a technology wave of the present and future. The reality of the technological and financial evaluation of microcomputers for home type use. Common pitfalls and points of likely failure are highlighted. Scenarios are developed for computers in a personal, home environment.

EMPLOYMENT OPPORTUNITIES

ACTUARIAL POSITIONS AVAILABLE: Completion of 1 or more actuarial exams is required. For further information, call:

Joseph J. Pratt
Automobile Club of So. Cal.
(213) 741-4766

If you have information on opportunities for jobs, internships or other positions, send it to Pat Grantham, 5612 Verano Place, Irvine, CA 92715; or to Rebecca Riggs, 8 Woodland, Irvine, CA 92714.

UPCOMING MEETINGS

Los Angeles Area

WHEN: April 23 WHEN: May 28
WHERE: UCLA WHERE: UCLA
EVENT: CAREER DAY SPEAKER: Arnold Allen

WHEN: June 25
WHERE: Velvet Turtle, Chinatown
SPEAKER: Larry Kimball

CAREER DAY IS NEXT MONTH

Don't forget to mark April 23rd on your calendar as an event not to miss. It's the day that the professional members of the Chapter invite students to their places of employment in order to get an idea of career choices available in the field of Statistics. Career Day has proven to be an event of immeasurable value to students in previous years.

If you would like to assist in making this year's Career Day another success, contact Al Kinderman at (213) 885-2470, or Rebecca Riggs at (714) 551-2798.

TRANSPORTATION

Transportation to this month's meeting is available in the Irvine area by contacting Bob Newcomb's secretary at (714) 833-5979, no later than Tuesday, March 24th.

Members interested in carpooling to upcoming meetings can contact Pat Grantham at (714) 955-3489 to have your information in the next newsletter.

ARE YOUR DUES UP TO DATE?

Now is a good time to put your accounts in order. If you have yet to pay your Chapter dues, send a check to Rebecca Riggs, 8 Woodland, Irvine, CA 92714.



The Southern California STATISTICIAN

✧ Meeting Memo and Newsletter ✧

VOL 18 No 7 SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION APRIL 1981

APRIL MEETING ANNOUNCEMENT

LOS ANGELES

WHO: Career Day
Panel Discussion

TOPIC: "Careers in Statistics"

WHEN: Thursday, April 23, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Panel Discussion

PRICE: \$9.25
\$6.00 for full-time students

DINNER RESERVATIONS: Please place your reservations with Bruce Hodge at (213) 741-4875 by Tuesday, Apr. 21.

WHERE: UCLA Faculty Center.
Parking in Structure #2 for \$2.00.

DIRECTIONS: The UCLA Faculty Center is located on campus at the northwest corner of Hilgard and Westholme. Approaching UCLA from Westwood Village on Westwood Boulevard turn right on Leconte, then left on Hilgard to Westholme. Parking is in Structure #2, directly opposite the Faculty Center.

CAREERS IN STATISTICS

Thursday, April 23rd is the annual Career Day meeting. It's the time for the professional members of the Chapter to invite interested students to their places of employment to see what statisticians really do on the job. It's also a chance for the students to ask the questions that cannot be answered in the classroom.

Past Career Day events have proven to be highly rewarding and enjoyable both to the students and the professionals. In recent years, the number of participants has shown steady growth, and the Chapter feels that this year will follow the same trend.

There is still time to make plans to participate, as the host of an on-site visit, or as a student visitor. If you still need to get your name on the list of participants, contact the persons listed below:

TO SPONSOR A VISIT, CONTACT:

BRUCE HODGE (213) 741-4875

STUDENTS WISHING TO VISIT, CONTACT:

AL KINDERMAN (213) 885-2470 OR

BOB NEWCOMB (714) 833-5979 OR

YOUR CAMPUS CAREER PLANNING CENTER

See you at UCLA on Career Day!

INFORMATION SOUGHT ON SURVEY RESEARCH

Information is sought from ASA members on conferences and symposia concerned with survey research methods and practices and other items of interest to people in survey research. A paragraph or two providing the details should be sent to: Dr. Judy A. Bean, Dept. of Preventive Medicine, Univ. of Iowa, Iowa City, IA 52242. All personal items should be sent

directly to the Editor of the Amstat News and not to Dr. Bean.

Announcements will be placed in the Survey Research section of the Amstat News.

American Statistical Association

Address: 1000
11th Street, Suite 1000
Irvine, CA 92714



NOMINATION OF CHAPTER OFFICERS

Elections of Chapter Officers for the 1981-82 year will be held soon. Nominees are being sought for the following Chapter positions:

President-Elect,
Vice President of Professional Affairs,
Vice-President for Academic Affairs,
Secretary,
Treasurer.

If you would like to nominate a fellow Chapter member for one of these posts, or if you are interested in running for office yourself, please contact:

Milton Brown, President 1980-81
at (213) 273-4202, Ext. 40

An Election Planning Committee is also being sought. Please contact Milton Brown if you would like to serve on the Committee or if you have any ideas or suggestions to pass on regarding the Elections.

EMPLOYMENT OPPORTUNITIES

The Department of Management Science at California State University, Northridge has available a number of one-year lectureship appointments for the 1981-1982 academic year in the fields of production and operations management, statistics and operations research. Inquiries should be addressed to:

Professor John R. Miller, Chairman
Management Science Department
CSUN
Northridge, CA 91330

INTERIM CODE OF CONDUCT

In the November 1980 and the March 1981 issues of the Amstat News, the ASA Ad Hoc Committee on Code of Conduct published a draft Code for statisticians for review by all members. After all comments are received and evaluated, a final version of the Interim Code will be presented to the Board of Directors at the May 1981 meeting.

The Committee members agree that it is vital to obtain members' responses addressed to the issue involved in this Code.

Please mail your views and opinions directly to the Chairman:

Dr. C. Terrence Ireland
10023 Menlo Avenue
Silver Spring, MD 20901

Your assistance in this matter will be greatly appreciated.

Copies of the Code may be obtained locally from the Chapter Secretary:

Rebecca Riggs
8 Woodland
Irvine, CA 92714

UPCOMING MEETINGS

Los Angeles Area

WHEN: May 28	WHERE: UCLA	WHEN: June 25	WHERE: Chinatown,
SPEAKER: Arnold Allen			Velvet Turtle
			SPEAKER: Larry Kimball



The Southern California STATISTICIAN

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Vol 18 No 8

SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

May 1981

MAY MEETING ANNOUNCEMENT

LOS ANGELES

WHO: Dr. Arnold O. Allen
Senior Instructor
IBM Systems Science Institute
Los Angeles

TOPIC: "Sixty-four Years of Queueing
Theory"

WHEN: Thursday, May 28, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Speaker

PRICE: \$11.00
\$ 7.00 for full-time students

DINNER RESERVATIONS: Please place your
reservations with Bruce Hodge at
(213) 741-4875 by Tuesday, May 26.

WHERE: UCLA Faculty Center.
Parking in Structure #2 for \$2.00.

DIRECTIONS: The UCLA Faculty Center is loca-
ted on campus at the northwest
corner of Hilgard and Westholme.
Approaching UCLA from Westwood
Village on Westwood Boulevard turn
right on Leconte, then left on
Hilgard to Westholme. Parking is in
Structure #2, directly opposite the
Faculty Center.

NEXT CHAPTER MEETING

Our next Chapter Meeting will be held
on Thursday, June 25th at the Velvet
Turtle, in Chinatown. Speaker to be
announced in the next newsletter.

THE SPEAKER AND HIS TOPIC

Dr. ARNOLD O. ALLEN is a Senior instructor
at the IBM Systems Science Institute. He
received his Ph.D. from UCLA where he
worked in functional analysis with Profes-
sor Angus E. Taylor. He has published in
Recreational Mathematics Magazine, The IBM
Systems Journal, and IEEE Computer. His
book Probability, Statistics, and Queueing
Theory with Computer Science Applications
was published by Academic Press in 1978.
Dr. Allen is responsible for the Capacity
Planning and Performance Evolution of Com-
puter Systems curriculum at the IBM Systems
Science Institute. He has written an In-
dependent Study Program Course for IBM
called Capacity Planning; Basic Models.

A brief abstract of Dr. Allen's talk follows:

Queueing theory, a branch of applied prob-
ability, began with the publication of an
important paper by A. N. Erlang in 1917.
Erlang was a mathematician employed by the
Copenhagen Telephone Company. Erlang's
work in queueing theory was and is used by
telephone engineers all over the world. In
1951 Professor David Kendall, in an address
to the British Royal Statistical Society,
pointed out that queueing theory could be
applied to many practical problems outside
telephony and was an attractive mathematical
discipline, as well. He also developed a
succinct notation for queueing systems. Some
simple queueing system models will be exam-
ined together with examples of their appli-
cation. Finally, the use of queueing theory
to model computer systems will be discussed.



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SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

June 1981

JUNE MEETING ANNOUNCEMENT

LOS ANGELES

- WHO:** Janet M. Myhre
Professor of Mathematics
Director, Institute of Decision
Science,
Claremont Men's College
- TOPIC:** "New Techniques for Computing
Confidence Bounds on the Reliability
of Existing Complex Systems"
- WHEN:** Thursday, June 25, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Speaker
- PRICE:** \$11.00
\$ 7.00 for full-time students.
- DINNER RESERVATIONS:** Please place your
reservations with Bruce Hodge at
(213) 741-4875 by Tuesday, June 23.
- WHERE:** The Velvet Turtle
708 Hill St., Chinatown
Los Angeles

THE SPEAKER AND HER TOPIC

Janet Myhre is Professor of Mathematics and Director of the Institute of Decision Science at Claremont Men's College. She received her Ph.D. in Mathematics from the Institute of Mathematical Statistics, University of Stockholm. She has been a Visiting Professor at the Department of Mathematical Statistics, University of Stockholm, Sweden, Chairman of the Department of Mathematics, Claremont Men's College, and a Research Engineer at the Boeing Scientific Research Laboratories.

Dr. Myhre has published in the Naval Research Logistics Quarterly, the Annals of Mathematical Statistics, and Technometrics. Besides the work done at the Boeing Company, she has done extensive and varied research for the U. S. Navy, including work on the Naval Air Systems Command's Firebrand Anti-Ship Missile Target.

A brief abstract of Dr. Myhre's talk follows:

"Most Government contracts for hardware systems require interval estimates for reliability of these systems. In many cases incentive fees are paid on the basis of the calculated lower bound for the system reliability.

Data for the calculation of confidence bounds are usually component test data where some of this data may be obtained from system tests. Unfortunately, most of the confidence bounds techniques found in the literature are

(continued on next page)

CHECK YOUR NEWSLETTER MAILING LABEL

If there have been any changes in your address or phone number, please send the corrections to Rebecca Riggs at the address shown. Your assistance is greatly appreciated in keeping the mailing list up to date.

SPEAKER, Continued

applicable only to series or special combinations of series and parallel systems. In practice other restrictions also apply to these techniques, such as equal component sample sizes or the occurrence of at least one failure on each set of component tests.

The new confidence bound technique which will be discussed is applicable to complex systems. Binomial component test data, even when component tests experience few or no failures may be used. The accuracy of this new technique is compared to various other confidence bound techniques. The new method is applied to data sets of the type found on Navy and Army missile programs.

Mathematical derivations will not be presented, but they will be available in printed material.

PROPOSED CONSTITUTIONAL AMENDMENT

A proposed amendment to the Southern California Chapter's Constitution will be considered and voted upon at the Annual Business Meeting on June 25th, at the Velvet Turtle, 708 Hill St., LA at 8p.m.

The proposed amendment is as follows:

Article VIII #1

The amount of annual dues or special assessments shall be determined by at least a two-thirds vote of members in good standing at the meeting where the annual dues or special assessments are considered, or by a two-thirds vote of an official mail ballot.

If this resolution passes, the Executive Committee expects to present a proposal for an increase in dues at the September meeting.

If you care to comment, contact:

Rebecca Riggs
8 Woodland Dr.
Irvine, CA 92714

Article VIII #1 as it now reads:

The amount of annual dues or special assessments shall be determined by a majority vote of the total membership in good standing.

SOUTHERN CALIFORNIA CHAPTER

**American
Statistical
Association**

1975-1976
1976-1977
1977-1978



The Southern California STATISTICIAN

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Vol 19 No 1 SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION September 1981

LOS ANGELES

THE SPEAKER AND HIS TOPIC

WHO: L. Craig Murray
Senior Research Scientist
Southern California Edison

Dr. L. CRAIG MURRAY is employed as a Senior Research Scientist at the Southern California Edison Company. He is in charge of the Environmental Data Analysis, which includes both exploratory and statistical analyses in the areas of marine, terrestrial and air quality research.

TOPIC: "Time Series Analysis of
an Historical Visibility
Data Set"

Dr. Murray received his Ph.D. in Biomathematics from the University of Washington.

WHEN: Thursday, September 24, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Speaker

A brief abstract of Dr. Murray's talk follows:

PRICE: \$9.75 for all participants

An historical visibility-sulfate data base has been statistically modelled using time series analysis. This study examines the necessary procedures involved in selecting the most appropriate statistical technique for this kind of data base. The two statistical techniques that are compared are time series analysis and least squares regression analysis. Time series is the preferable technique because it is able to account for autocorrelation among the variables and lead-lag relations between variables.

DINNER RESERVATIONS: Please place your reservations with Bruce Hodge at (213) 741-4875 by Tuesday, September 22.

WHERE: USC Faculty Center
645 W. Exposition Blvd.
(Entrance on Figueroa)
(213) 741-6661
\$2.00 Parking Fee

A MESSAGE FROM THE PRESIDENT

CHAPTER OFFICERS 1981-82

President	Paul Baum
President-Elect	Bruce Hodge
V.P. Professional Affairs	Jim Taylor
V.P. Academic Affairs	Janet Williams
Treasurer	Pat Grantham
Secretary	Rebecca Riggs

I would like to take this opportunity to tell you about some of the activities we have planned for this year. I would also like to tell you about some of the difficulties we face and our proposals for solving them.

First of all, we have an impressive list of speakers planned for the monthly meetings. We are pleased to have Craig Murray from the Southern California Edison Company as the speaker for the September meeting. Notice of our other speakers will appear regularly in

(continued on next page)

President's Message (cont.)

future issues of the Newsletter.

Another item on this year's agenda is the Chapter's annual Career Day Program. This event is the one in which students in the field of Statistics are given the opportunity to see the Professionals at work.

In addition to the Chapter's traditional activities, some new programs are in the works, such as the Saturday Symposium and the Institutional Membership Program.

Also planned is the resurrection of some earlier Chapter activities. In particular, the Membership Committee is being reactivated in order to explore ways in which more members can have the opportunity of taking an active part in the Chapter's programs.

If you would like to lend you talents to the planning and/or implementation of any of these programs, please let one of the Chapter officers know at the next meeting, or drop a note to the Chapter Secretary, Rebecca Riggs, at the address shown.

Less exciting news to report is that the Chapter's financial situation is not what it should be. Our present income from membership fees is not sufficient to cover the rising costs of running the Chapter. We are currently operating beyond our income.

Several proposals for ameliorating the financial situation were discussed at the monthly meeting held in June and at the Officers' meeting in August. As a result of these meetings, a proposal to increase professional members' dues from \$5.00 to \$8.00, and to implement a \$3.00 fee for students will be voted upon at the September 24th meeting. A constitutional change approved at the June meeting makes this action possible.

The 1981-82 meeting dates and locations are as follows:

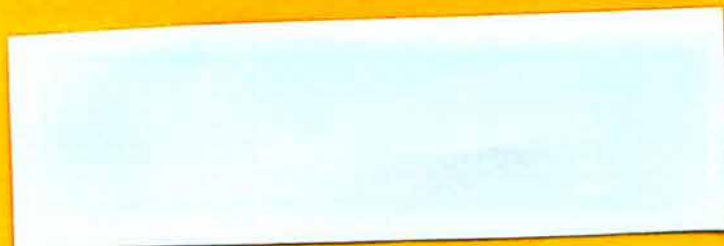
- Sep. 24 USC
- Oct. 29 UCLA
- Dec. 3 UCI
- Jan. 28 to be announced
- Feb. 25 UC Riverside
- Mar. 25 USC (joint ORSA/TIMS meeting)
- Apr. 29 UCLA (Career Day)
- May 27 UCI
- June 24 to be announced

Keep this list for a handy reference during the year. I look forward to seeing you at these meetings. I'm sure you'll find them professionally rewarding and socially gratifying.

Paul Baum, SCASA President, 1981-82

SOUTHERN CALIFORNIA CHAPTER

**American
Statistical
Association**





The Southern California STATISTICIAN

❖ Meeting Memo and Newsletter ❖

Vol 19 No 2 SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION October 1981

November Meeting Announcement

WHO: Professor Ralph Catalano
&
Professor David Dooley
Program in Social Ecology
University of California, Irvine

TOPIC: "Economic Change, Psychological
Symptoms, and Help Seeking: A
Logit Analysis"

WHEN: Thursday, November 5, 1981
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Program

DINNER \$7.00
PRICE: \$6.00 full time students

DINNER RESERVATIONS: Please place your
reservations with Bob Newcomb at
(714) 833-5979 or Bruce Hodge at
(213) 741-4875 by Tuesday, Nov. 3

WHERE: University of California, IRVINE
Terrace Restaurant/Gateway Commons
Parking free in Lot #4 or at a
meter in Lot #2

Directions to UCI

Take the San Diego Freeway (405) to Culver Drive in Irvine. Go South on Culver Drive to Campus Drive (1.5 miles). Turn right on Campus Drive and go to Bridge Road (1 mile). Turn left onto Bridge Road. Proceed to Parking Lot #4 (free parking) or Parking Lot #2 (pay parking at meter) as shown on the map on the back of this page.

THE SPEAKERS

The speakers for this month's program are David Dooley and Ralph Catalano who are both Associate Professors in the Program in Social Ecology at the Irvine campus of the University of California. Professor Dooley holds a PhD in Psychology from UCLA while Professor Catalano's PhD in Regional Planning was earned at Syracuse University.

They are co-principle investigators of the NIMH funded "Los Angeles Stressor Project" which is now completing its fourth year of operation under the aegis of the Public Policy Research Organization of UCI.

THEIR TOPIC

The "Los Angeles Stressor Project" is a trend study of four years duration whose data has been primarily gathered by telephone interviews from a quarterly sample of adults residing in Los Angeles County. Each quarter a different group of 500 adults were selected by means of a modified random digit dialing method and questioned as to their personal characteristics, stressful life events, psychological symptoms, health functioning, and changes in help-seeking behavior. The analysis of this data, which is currently in progress, addresses three principle hypotheses: 1. changes in the economic climate lead to stressful life events, psychological symptoms, and increased help seeking. 2. Stressful life events lead to increased help-seeking. 3. Changes in the economic climate and stressful life events interact to increase help seeking behavior. After controlling for demographic characteristics these hypotheses are being tested using log-linear methods. Logit coefficients are used for final presentation of the results.



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Vol 19 No 3 SOUTHERN CALIFORNIA CHAPTER, AMERICAN STATISTICAL ASSOCIATION November 1981

December Meeting Announcement

WHO: Dr. Robert W. Smith
Independent Consultant

TITLE: Multivariate Analysis of
Ecological Survey Data

WHEN: Tuesday, December 3, 1981
6:00 pm - Social Hour
7:00 pm - Dinner
8:00 pm - Program

DINNER PRICE: \$8.00
\$7.00 for full-time Students

DINNER RESERVATIONS: Please place
your dinner reservations by
Monday, November 30, 1981.
Call Bruce Hodge at (213)
741-4875

WHERE: UCLA Faculty Center
(Parking fee is \$2.00)

DIRECTIONS: The UCLA Faculty Center is
located on the UCLA campus at the
Northwest corner of Hilgard and
Westholme. Any parking kiosk on
the UCLA campus will provide
parking information and directions
to the Center.

THE SPEAKER

Dr. Robert Smith is an ecologist, data analyst, and systems' programmer who has been an independent consultant for the last five years. His work has involved analysis and data management for private consulting firms, utilities, universities and government agencies. He is also writing a computer program package for the analysis of ecological

survey data. His research interests include the development of new and improved analytical techniques in this field.

Dr. Smith received a BA in Psychology from UC Berkeley, a BS in Oceanography from the University of Washington, Seattle, and a Ph.D. in Biology from the University of Southern California.

HIS TOPIC

Ecological survey data are often gathered as part of environmental impact statements, monitoring studies, and academic research. In some important respects these types of data are unlike those of special techniques which are not readily available in the more popular analytical computer packages.

Cluster analysis and ordination techniques are often used for finding the patterns in the biological data. Most of these methods require the calculation of inter-sample and/or inter-species distances. Species importance values are often non-linear, non-monotonic, and truncated in relation to the important environmental gradient(s). This causes distortion of the distance values. Techniques used to correct for this distortion are discussed.

It is also of interest to study the correlations between the biological patterns and the environmental patterns. Multiple regression and canonical correlations can be used to relate ordination axes to environmental variables. Weighted discriminant analysis can be used to relate cluster analysis results to the environment, and a priori hypotheses about community changes can be tested with a non-parametric analysis of distances.

PROFESSIONAL OPPORTUNITY

Job Title: Public Health Statistical Analyst
Salary: \$2189 - 2661 per month, depending on experience.

Job Description: The Dept. of Public Health County of San Bernardino, is currently seeking an individual to be responsible for collection, analysis, and presentation of all community health stats for use by the Dept.

Duties: Directs and advises a clerical and professional statistical staff. Maintains departments stat reporting systems, including county health stats and service level data. Maintains and coordinates the Department's data processing systems. Consults and advises Public Health Dept. personnel concerning the collection and analysis of statistical information and special study designs. Develops and manages a budget for the Dept's statistical program, including initial preparation, identification of priority activities, and performance monitoring.

Education: 30 semester (45 quarter) units of college course work in statistics and math of which a minimum of 12 semester (18 quarter) units were in statistics.

Experience: 3 years of experience in application and analyses of statistics related to the health field or similar area.

Substitution: A Masters Degree in Public Health, Math, Statistics or a related field, with emphasis on bio-statistics or statistics may be substituted for one year of the required experience.

Interested parties should contact
Michael Welsh at (714) 383-2943

FROM THE EDITOR

The Chapter Newsletter editor welcomes information concerning professional and pre-professional opportunities in statistics. Such information will be published in a timely fashion to reach the more than 800 professionals and students who read this newsletter. Please feel free to send information to the editor concerning opportunities ranging from part-time or intern positions appropriate for student members to senior career positions.

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