



The Southern California STATISTICIAN

✧ Meeting Memo and Newsletter ✧

Vol 16 No 4

Southern California Chapter American Statistical Assn

January 1979

January Meeting Announcements

Los Angeles

WHO: David Rothman

TOPIC: "Tournament Design, Ranking Contestants, and Prize Fund Allocation, with Application to Football and Chess"

WHEN: Thursday, January 25, 1979

6:00 p.m. - Social hour

7:00 p.m. - Dinner

8:00 p.m. - Speaker

PRICE: \$8.00

\$5.00 for full-time students

DINNER RESERVATIONS: Please place your dinner reservations with Bruce Hodge by Tuesday, January 23. His telephone number is (213) 741-4480.

WHERE: UCLA Faculty Center (Sequoia #1)
(213) 825-0877

DIRECTIONS: The UCLA Faculty Center is located on the UCLA 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 available in Parking Structure #2 for a charge of \$1.00.

San Diego

WHO: Dr. Neil Beck

TOPIC: "Controlling the Economy to Win Elections"

WHEN: Wednesday, January 24, 1979

6:30 p.m. - No host cocktails

7:00 p.m. - Dinner

8:00 p.m. - Speaker

PRICE: \$5.00

\$3.00 student

DINNER RESERVATIONS: Please confirm your reservations by Monday, January 22 by calling John Killmer.

Weekdays: (714) 232-4252, ext. 2220

Evenings: (714) 234-0057

WHERE: Su Casa Restaurant
6738 La Jolla Boulevard
La Jolla, California

FUTURE CHAPTER MEETINGS

Los Angeles Area:

Thursday, February 22 (UC Irvine)

Thursday, March 22 (USC)

San Diego Area:

Wednesday, March 28

Wednesday, May 23

THE SPEAKERS AND THEIR TOPICS

Mr. David Rothman, member of the technical staff of Agbabian Associates in El Segundo, is the invited speaker for our January meeting. His presentation is entitled, "Tournament Design, Ranking Contestants, and Prize Fund Allocation, with Application to Football and Chess." It is briefly described as follows:

"A system for grading football scores has been applied to the Bradley-Terry model of pairwise comparisons. Increasingly comprehensive sets of standings have been computed over the past decade for NCAA and NAIA college football teams, based on this procedure. The results are compared with the wire service polls and other investigators. These rankings could be used in determining national championship in NCAA Division I-A and in selecting participants in the five national playoff tournaments. Grades could also be used in constructing uniform tie-breaking procedures in the NFL for use in the draft and the playoffs, in place of the present tandem method.

Chess tournaments are examined, including recent world championships, the U.S. Armed Forces Chess Tournament and the Swiss system design. Improvements are proposed for the last round of Swiss systems, for tie-breaking procedures (now based on the 'median,' which is a trimmed Solkoff), and for cash prize distribution (presently equal amounts to those in the same raw score class). The 1978 Statham Tournament is used as an example.

The simplest 'open tournament' design problem is posed: Given four players A, B, C, and D, there are three possible sets of pairings (ignoring colors or home field advantage):

- A vs. B, and C vs. D
- A vs. C, and B vs. D
- A vs. D, and B vs. C

Our speaker this month is Dr. Neil Beck, Assistant Professor of Political Science at the University of California, San Diego. His talk is entitled, "Controlling the Economy to Win Elections." An abstract of the talk is as follows:

"The paper investigates whether politicians appear to manipulate the economy so as to win elections. The analysis is the Box-Tiao Intervention Analysis. The paper studies whether elections have any impact on American unemployment and inflation, using monthly data from the period 1961-1973."

Prior to his work at San Diego, Dr. Beck served in the political science department at Washington State University (1973-1978). He holds a Ph.D. in political science from Yale University and an A.B. in mathematics from the University of Rochester.

If the tournament is of infinite length, what percentage of the rounds should be of each type, as a function of the four playing skills?"

Mr. Rothman has had more than 20 years of professional experience, during which he has held positions as statistical analyst, research specialist, and senior programmer at several organizations including: the City of Los Angeles, Rocketdyne, Abacus Programming Corporation, and TRW. At Agbabian, Mr. Rothman's most recent project is a Monte Carol study designed to validate various simple system-reliability approximations. His previous work includes mathematical modeling of space shuttle software development progress and of F-16 weapons systems. He holds both an M.A. and B.A. in mathematics from the University of Wisconsin.

SOUTHERN CALIFORNIA CHAPTER

American Statistical Association

626 NORTH GARFIELD AVENUE
ALHAMBRA, CALIF. 91802

ASA 6-77
Dr. Robert L. Newcomb
School of Social Sciences
University of California
Irvine, CA 92717

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The Southern California STATISTICIAN

✱ Meeting Memo and Newsletter ✱

Vol. 16, No. 5 Southern California Chapter American Statistical Assn. February 1979

February Meeting Announcement

Robert J. Thompson received the B.S. degree from Drake University in 1949, the M.S. degree in Engineering (Control Theory) from UCLA in 1970 and is completing the Ph.D. program at UCLA in operations Research.

Mr. Thompson is currently a Senior Scientist with Science Applications, Inc., Space Systems Division. At the time the work discussed in this paper was performed he was consultant on the Group staff at Hughes Aircraft Space and Communications Systems Group, specializing in statistical and probabilistic problems.

Mr. Thompson is a member of the American Statistical Association, the Operations Research Society of America, the Society for Computer Simulation, and The Institute of Management Science.

The following is an abstract of Mr. Thompson's talk:

LANDSAT pictures of the earth have made spectacular headlines since the first launch in 1972. This talk describes the wide spectrum of statistical problems encountered in the thermal-vacuum testing of the Multi-Spectral-Scanner (MSS), the heart of LANDSAT. The talk features a 20-30 minute slide presentation of the MSS system operation, and shows representative samples of the spectacular earth pictures. The statistical problems discussed include signal-to-noise estimation in a non-linear operating mode, non-linear regression (instrument calibration), monitoring and control of test and internal calibration light source variation, mean and standard deviation estimation from overly quantized data, and sequential updating of parameter estimates.

Who: Robert J. Thompson

Topic: "Statistical Problems Encountered in Testing the Multi Spectral Scanners"

When: Thursday, February 22, 1979
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 - Speaker

Price: \$6.50
\$4.50 for full-time students

Dinner Reservations: It is extremely important that all dinner reservations be received by noon on Tuesday the 20th. Reservations may be placed with:

Los Angeles
Bruce Hodge: 213-741-4480

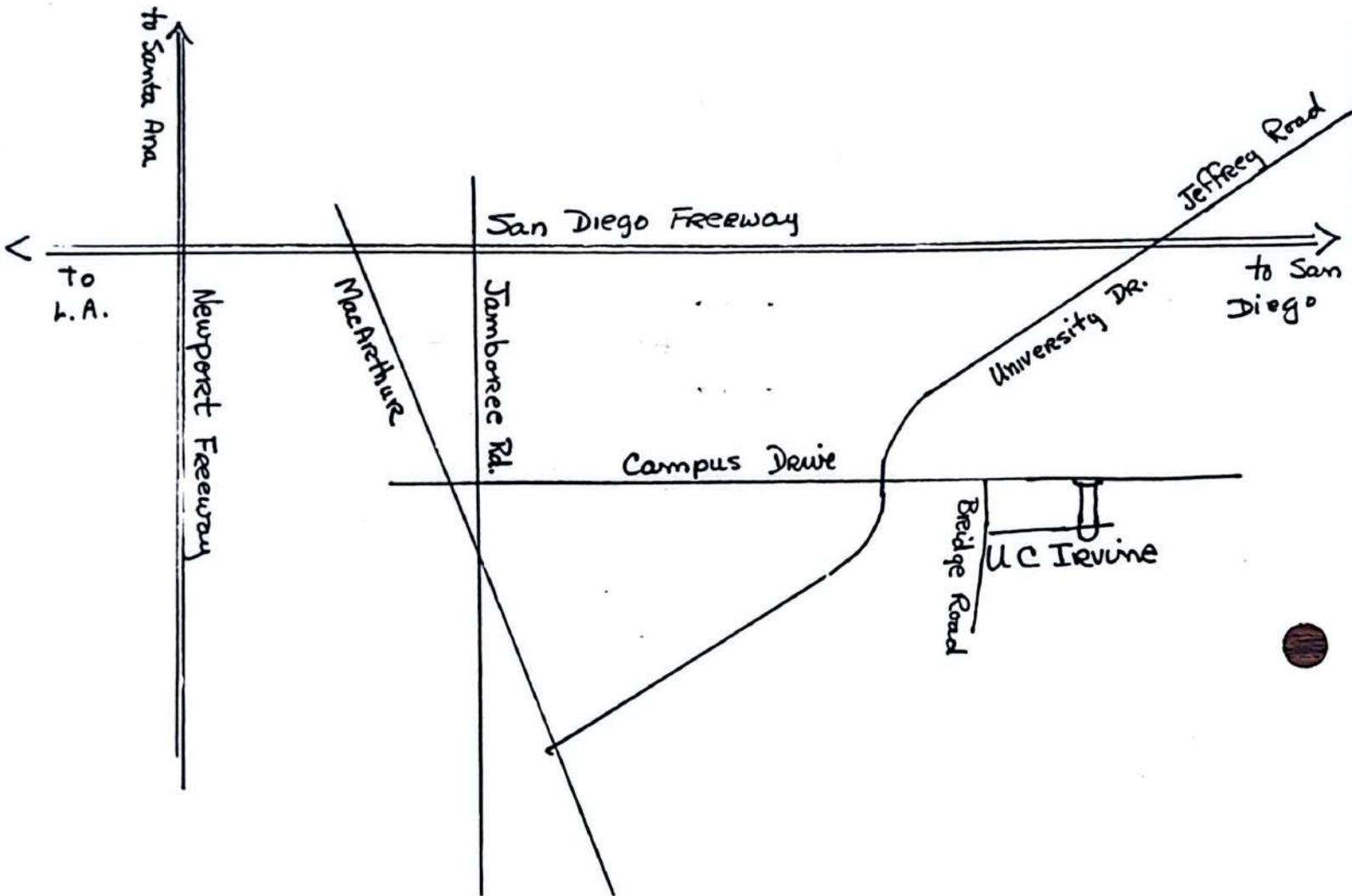
Orange County
Robert Newcomb: 714-833-6680

San Diego
John Killmer: 714-232-4252 x 2220
or 714-234-0057

Where: U.C. Irvine
Room 203 Student
Services I Building

Directions: Student Services I (#35 on map) is located behind the administration building and contains the on-campus bookstore.

Park free in parking lot # 4 adjacent to the Admin. bldg. If no spaces are available, park in lot # 2 for \$0.50.



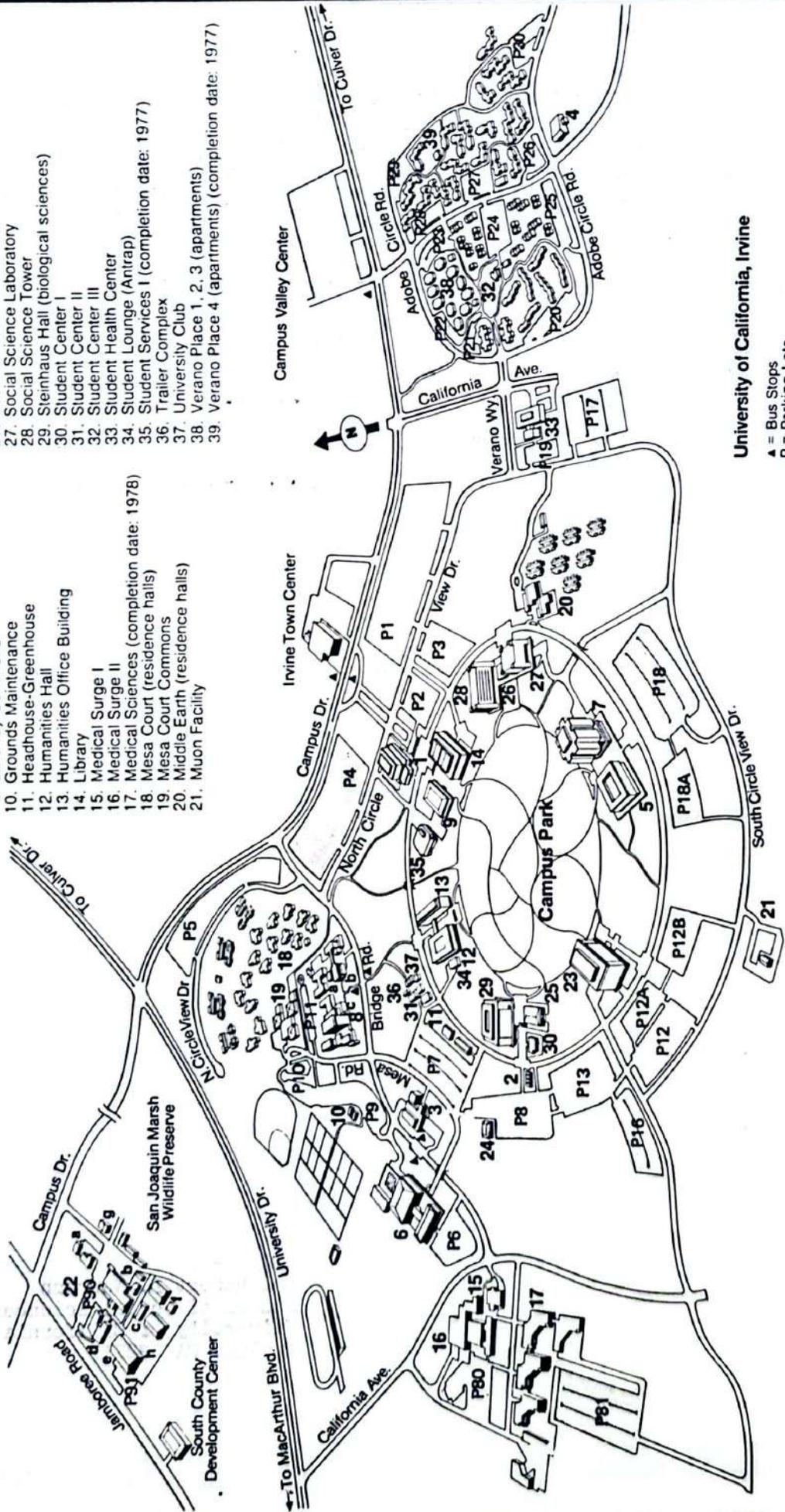
To reach the campus:
From Los Angeles - exit San Diego Freeway at Jamboree Road, proceed south-west to Campus Drive, turn left on Campus Drive, continue one mile to main campus entrance.

From San Diego - exit San Diego Freeway at University Dr., proceed west on University Drive to Campus Drive, turn left on Campus Drive, continue two blocks to main campus entrance.

University of California, Irvine

1. Administration Building
2. Biological Sciences Trailers
3. Central Plant and Police
4. Child Care Center
5. Computer Science
6. Crawford Hall (physical education)
7. Engineering
8. Fine Arts Village
 - a. Art Gallery
 - b. Concert Hall
 - c. Theatre
9. Gateway Commons
10. Grounds Maintenance
11. Headhouse-Greenhouse
12. Humanities Hall
13. Humanities Office Building
14. Library
15. Medical Surge I
16. Medical Surge II
17. Medical Sciences (completion date: 1978)
18. Mesa Court (residence halls)
19. Mesa Court Commons
20. Middle Earth (residence halls)
21. Muon Facility

22. North Campus
 - a. Comparative Medicine Building
 - b. Faculty Research Building
 - c. Garage
 - d. Interim Office Building (Printing Department)
 - e. Receiving-Storehouse
 - f. Shops Building
 - g. Wildlife Vivarium
 - h. Cooperative Recycling Center
23. Physical Sciences
24. Radioactive and Chemical Waste Handling Facility
25. Science Lecture Hall
26. Social Science Hall
27. Social Science Laboratory
28. Social Science Tower
29. Steinhaus Hall (biological sciences)
30. Student Center I
31. Student Center II
32. Student Center III
33. Student Health Center
34. Student Lounge (Anitrap)
35. Student Services I (completion date: 1977)
36. Trailer Complex
37. University Club
38. Verano Place 1, 2, 3 (apartments)
39. Verano Place 4 (apartments) (completion date: 1977)



University of California, Irvine

- ▲ = Bus Stops
 - P = Parking Lots
- Visitors may park in metered spaces in lots P-2,5,6,7,8,9,11,12,13,18,19,80,90, Lib/Serv and Res/Hall 4.
- Shaded roads and parking areas are open to public auto travel.

SOLICITATION

Again we solicit your input for publication in the Southern California Statistician. Do you know of a recent publication by one of our members, an honor received, an employment opportunity of interest to our membership, or an announcement of any kind? Please send your contributions to:

Vikky Lawrence
Management & Policy Sciences
School of Business Admin.
University of So. Calif.
University Park,
Los Angeles, Calif. 90007

or

Donna Driscoll
Dept. of Accounting
School of Business Admin.
U.S.C.
University Park
L.A. Calif. 90007

OFFICERS' MEETING

An officers' meeting will be held before the regular meeting at 5:00 p.m. in room #230 A of the Student Services I building. All interested members are welcome.

CONGRATULATIONS!

To Don Guthrie of U.C.L.A. who has been elected President-Elect of the Biometric Society Western North America Region for 1979.

FUTURE MEETINGS

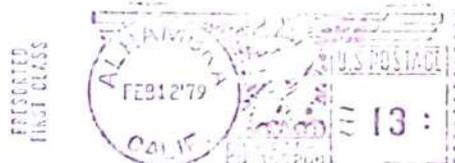
Thursday, March 22 U.S.C.

Wednesday, March 28 San Diego

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American Statistical Association

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ALHAMBRA, CALIF. 91802



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Dr. Robert L. Newcomb
School of Social Sciences
University of California
Irvine, CA 92717

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The Southern California STATISTICIAN

✧ Meeting Memo and Newsletter ✧

Vol. 16, No. 6

Southern California Chapter American Statistical Assn.

March, 1979

March Meeting Announcements

Los Angeles*

WHO: Dr. Paul Gray

TOPIC: "Personal Computers"

WHEN: Thursday, March 22, 1979

6:00 p.m. Social Hour

7:00 p.m. Dinner

8:00 p.m. Speaker

PRICE: \$7.50

5.00 for full-time students

DINNER RESERVATIONS: Please place your dinner reservations with Bruce Hodge by Tuesday, March 20. He can be reached at (213) 741-4480.

WHERE: U.S.C. Faculty Center
645 W. Exposition Boulevard
(USC Entrance #2, Figueroa Street)
Los Angeles, CA
(213) 741-6661

DIRECTIONS: Approaching USC from the Harbor Freeway on Exposition Blvd. (westbound), turn right (north) onto Figueroa St. (at the Chevron station) and then make an immediate left turn into University Entrance #2. Personnel at the traffic kiosk will collect the \$1.00 parking fee and direct you to parking lot E adjacent to the Faculty Center.

* Note: This is our annual joint meeting with the local chapter of ORSA/TIMS

San Diego

WHO: Dr. Ramu Ramanathan

TOPIC: "Econometric Issues in Estimating Demand for Electricity"

WHEN: Wednesday, March 28, 1979

6:30 p.m. No-host cocktails

7:00 p.m. Dinner

8:00 p.m. Presentation

PRICE: \$7.50

5.00 for full-time students

DINNER RESERVATIONS: If you plan to have dinner, please make reservations no later than Monday, March 19, with John Killmer:

Weekdays: (714)232-4252, ext. 2220

Evenings: (714)232-0057

WHERE: Shelter Island Inn
2051 Shelter Island Drive
San Diego, CA
(714) 234-0057

DIRECTIONS: Take Highway 5 to airport exit, then continue on airport-bound road to the Shelter Island turnoff.

THE SPEAKERS AND THEIR TOPICS

Paul Gray is a Professor in the Department of Management and Policy Sciences in the School of Business Administration at the University of Southern California. He is also Secretary of The Institute of Management Sciences and Departmental Editor for Public Sector Applications of Management Science. He is a winner of the NATO Systems Science prize for 1978.

Dr. Gray's presentation is entitled, "Personal Computers," and can be summarized as follows:

The microelectronic revolution has produced personal computers that sell for \$600 to \$1500. Estimated sales in 1978 were between 150,000 and 200,000 units. The rapid introduction of this new consumer durable portends changes in the way we live, learn, and work. This talk will discuss a technology assessment currently being performed at the University of Southern California to try to understand what these changes will be. The approach being used includes a market survey, application of market models, development of scenarios, expert inquiries, and cross impact and policy analyses.

Dr. Ramanathan holds an MA in mathematics from the University of Madras, a Master of Statistics degree from the Indian Statistical Institute, and a Ph.D. in Economics from the University of Minnesota. He is currently an Associate Professor and Director of Graduate Studies in Economics at the University of California-San Diego.

Professor Ramanathan's presentation is entitled, "Ecomometric Issues in Estimating Demand for Electricity." The presentation may be summarized as follows:

In developing econometric models of demand for electricity by time of day, the available data are usually great in number, thus imposing heavy computational costs. Techniques for reduction of such data without seriously compromising the statistical properties of estimated relationships are important. One possible approach to solving this problem is discussed. Preliminary results based on hourly data for thirteen years in each of 32 geographical regions are also presented.

FUTURE CHAPTER MEETINGS

Los Angeles Area

- Thursday, April 26 (UCLA)
- Thursday, May 24 (UCLA)
- Thursday, June 21 (USC)

San Diego Area

Wednesday, May 23

OTHER CHAPTER ACTIVITIES

CAREER DAY

The Southern California Chapter of ASA will hold its annual Career Day activities on April 26, 1979. The program consists of student visits to offices and laboratories (to gain first-hand knowledge of what statisticians do), followed by attendance at the chapter's regular evening meeting.

All chapter members (from both the Los Angeles and the San Diego areas) are encouraged to participate in the Career Day activities by allowing interested students to visit them at their place of business during either the morning or afternoon of April 26. If you are interested in hosting students, please contact:

Milton Brown
Occidental Life Insurance Co. (T 1621)
Box 2101 Terminal Annex
Los Angeles, CA 90051
(213) 742-2271

and indicate your name, employer, and location employment.

Volunteers from academia are needed to help (1) identify students who might benefit from Career Day and (2) publicize the event on college campuses. If you can help, please contact:

Robert Elashoff
UCLA Cancer Center, BASE Unit
924 Westwood Blvd., Suite 515
Los Angeles, CA 90024
(213) 825-1907

Students who are interested in participating in Career Day should also contact Robert Elashoff.

STUDENT PAPER PRIZE COMPETITION

The Southern California Chapter of the American Statistical Association is holding its annual student paper prize competition. There will be two classes of competition: undergraduate and graduate. Papers may address either theoretical development or practical applications of statistics.

Theoretical papers may focus on the development of new statistical techniques or on laying groundwork for techniques already developed. Papers on practical applications may present innovative uses of statistical techniques or may analyze the use or misuse of common methodology.

Judgments will be based on soundness of reasoning, organization of thought, and insight into implications. The author of the winning paper in each competition will awarded a cash prize of one hundred dollars.

Papers should be submitted no later than May 11, 1979 to:

Robert Elashoff
UCLA Cancer Center, BASE Unit
924 Westwood Blvd., Suite 515
Los Angeles, CA 90024
(213) 825-1907.

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NOMINATIONS BEING ACCEPTED FOR 1979-1980 OFFICERS

The Elections Committee of the Southern California Chapter of ASA is now inviting nominations for officers. Elections will be held for the following offices:

Los Angeles Area:

President, Vice President (Academic Affairs),
Vice President (Professional Affairs),
Secretary, Treasurer

San Diego Area:

Area Chairman, Area Secretary

If you would like to make an informal nomination or run for office yourself, please contact:

Wally Blischke
Dept. of Management and Policy Sciences
Graduate School of Business Administration
University of Southern California
Los Angeles, CA 90007
(213) 741-2446

Final nominations will be made at the April meeting, elections held during May, and officers installed in June.

VOLUNTEERS NEEDED TO HELP WITH STUDENT PAPER PRIZE COMPETITION

If you are interested in helping with either publicity or identification of students relative to the paper competition, please contact:

Robert Elashoff
UCLA Cancer Center, BASE Unit
924 Westwood Blvd., Suite 515
Los Angeles, CA 90024
(213) 825-1907

ASSESSMENT OF SECOND YEAR STUDENT MEMBERSHIP DUES CONSIDERED

The Executive Committee of the Southern California Chapter is presently considering a Constitutional Amendment to allow the charge of a nominal fee (\$1.00) to full-time students for their second and subsequent years membership. The primary reason for this motion is the large number of inactive student members on the Chapter's mailing list. Assessment of some small fee would require students to at least exhibit a continuing interest in Chapter activities or risk being dropped from the rolls.

If you have comments about this motion, please send them to (or call):

Robert Newcomb
School of Social Sciences
University of California
Irvine, CA 92717
(714) 833-5366
(714) 833-6680 (secretary)

NEWSLETTER INPUT

If you have any news items for this publication, please send them to either

Donna Driscoll
Dept. of Accounting (213) 741-2426

or

Vikky Lawrence
Dept. of Mgmt. & Pol. Sci. (213) 741-2446

at the School of Business, University of Southern California, Los Angeles, CA 90007

SOUTHERN CALIFORNIA CHAPTER

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ASA 6-77
Dr. Robert L. Newcomb
School of Social Sciences
University of California
Irvine, CA 92717





The Southern California STATISTICIAN

✧ Meeting Memo and Newsletter ✧

Vol. 16, No. 7

Southern California Chapter American Statistical Assn.

April 1979

April Meeting Announcements

THE PANEL

For April we have a panel discussion on "Careers in Statistics." Each panelist will discuss; (1) how he/she became involved in statistics, (2) his/her career in statistics, and (3) some interesting applications he/she is currently working on.

Ernest M. Scheuer will be the moderator. He is Professor of Management Science and Professor of Mathematics at California State University, Northridge. Before coming to CSUN in 1970 he worked in industry at C-E-I-R, the Rand Corp., Space Technology Laboratories, and the U.S. Naval Ordnance Test Station (Pasadena Annex). His Ph.D. in mathematics is from UCLA (1960); he took an M.S. in mathematical statistics at the University of Washington (1954) and his B.A. in mathematics from Reed College (1951).

THE PANELISTS

Norman Cliff:

He is Professor of Psychology at the University of Southern California. His publications are extensive and he participates in many university activities and professional organizations. He is on the Board of Directors of the Psychometric Society, and held the office of President in 1978. He is on the Board of Editors for Applied Psychological Measurement and Psychometrika. Dr. Cliff received his Ph.D. from Princeton University

Dorothy D. Corey:

She is President of Facts Consolidated providing research and counseling in marketing. She is also Chairman of the Board of Corey, Canapary and Galanis. She is a member of many professional and service organizations, and is the recipient of eight Frances Holmes Awards. She was Los Angeles Times Woman of the year in 1961.

LOS ANGELES

WHO: Norman Cliff
Dorothy D. Corey
Donald Guthrie
Ray E. Schafer
Ernest M. Scheuer (Moderator)

TOPIC: Panel discussion
on "Careers in Statistics"

WHEN: Thursday, April 26, 1979
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Panel Discussion

PRICE: \$8.00
\$6.00 for full-time students

Dinner Reservations: Please place your dinner reservations with Bruce Hodge by Tuesday April 24. His telephone No. (213) 741-4480

WHERE: UCLA Faculty Center
Redwood Room
(213) 825-0877

Directions: The UCLA Faculty Center is located on the UCLA campus at the northwest corner of Hilgard and Westholme. Approaching UCLA from Westwood Village on Westwood Blvd, turn right on Leconte, then left on Hilgard to Westholme. Parking is available in Parking Structure #2 for a charge of \$1.00

Donald Guthrie:

He is Adjunct Professor of Psychiatry and Biostatistics at the University of California, Los Angeles. His list of publications and presentations is extensive. He has served on many academic and professional committees, and has refereed papers for the Journal of the American Statistical Association, Biometrics, The American Statistician, and Naval Research Logistics Quarterly. He received his Ph.D. in statistics from Stanford University.

Ray E. Schafer:

He is a senior scientist in the systems effectiveness department at Hughes Aircraft Company. He has published extensively and has refereed papers for JASA, Operations Research and Technometrics, among others. Dr. Schafer is a past Associate Editor of Technometrics. He received his Ph.D. in Statistics from Case Western Reserve University.

NEWSLETTER INPUT

If you have any news items of interest to our readers please send them to either:

Donna Driscoll
Dept. of Accounting
U.S.C.

or

Vikky Lawrence
Mgmt. and Policy Sci. Dept.
School of Business
U.S.C.

MEMBER NEWS

Tugrul Aladag published "A Probabilistic Approach to Staff Allocation" in the January, 1979, issue of Business Economics and "Assessing Risk and Return on Loans Sold in the Secondary Market" in the September, 1978, issue of Mortgage Banker.

CAREER DAY

The April meeting is also the culmination of this year's day-long "Careers in Statistics" activities. The students who have visited a host statistician at his/her place of work are invited to attend the dinner-meeting to meet other professional statisticians and to find out more about careers in statistics.

We hope those of you who are able to attend the meeting will share your experiences in a career in statistics with these students.

FUTURE MEETINGS

Los Angeles Area
Thursday, May 24 (UCLA)
Thursday, June 21 (USC)

San Diego Area

Wednesday, May 23

SOUTHERN CALIFORNIA CHAPTER

**American
Statistical
Association**

626 NORTH GARFIELD AVENUE
ALHAMBRA, CALIF. 91802

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The Southern California STATISTICIAN

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Vol 16 No 8

Southern California Chapter American Statistical Assn

May 1979

May Meeting Announcements

Los Angeles

WHO: A. A. Afifi
School of Public Health
University of California-Los Angeles

TOPIC: "Health and Economic Development II"

WHEN: Thursday, May 24, 1979
6:00 p.m. - Social Hour
7:00 p.m. - Dinner
8:00 p.m. - Speaker

PRICE: \$8.00
5.00 for full-time students

DINNER RESERVATIONS: Please place your dinner reservations with Bruce Hodge by Tuesday, May 22. He can be reached at (213) 741-4480.

WHERE: UCLA Faculty Center
(213) 825-0877

DIRECTIONS: The UCLA Faculty Center is located on the UCLA campus at the northwest corner of Hilgard and Westholme. Approaching UCLA from Westwood Village on Westwood Boulevard, turn right on Le Conte, then left on Hilgard to Westholme. Parking is available in Parking Structure #2 for a charge of \$1.00.

NOTE: This is the annual business meeting of the Southern California Chapter. The main item of business will be nomination of officers for next year. Nominations will be accepted from the floor or accepted in advance by contacting Don Guthrie at 825-0318.

San Diego

WHO: Leonard Haff
Department of Mathematics
University of California-San Diego

TOPIC: "The James-Stein Estimator and Certain of its Applications"

WHEN: Wednesday, May 23, 1979
6:30 p.m. - No host cocktails
7:00 p.m. - Dinner
8:00 p.m. - Presentation

PRICE: \$10.00
7.50 for full time students

MENU: Seafood brochette w/rice and mushrooms
Green beans almondine
Salad, rolls, beverage
Strawberry cheesecake

DINNER RESERVATIONS: Please make reservations by calling John Killmer no later than Monday, May 21:
Weekdays: (714) 232-4252, Ext 2220
Evenings: (714) 234-0057

WHERE: Reuben E. Lee Sternwheeler Restaurant
880 E. Harbor Island Drive
San Diego

DIRECTIONS: Take airport exit from I-5 and follow signs to Harbor Island.

JUNE CHAPTER MEETING: Nancy Minter will be our speaker at the regular Los Angeles area meeting on June 21. Please note that the location has been changed to the UCLA Faculty Center (not USC, as previously announced). More details on the meeting will be provided in the June newsletter.

The Speakers and their Topics

Dr. A. A. Afifi obtained his B.S. in Mathematics from Cairo University in 1959; his M.S. in Statistics from the University of Chicago in 1962; and his Ph.D. in Statistics from the University of California at Berkeley in 1965.

After a visiting appointment at the University of Wisconsin at Madison he joined the faculty at the School of Public Health at UCLA where he is now a Professor and Head of the Biostatistics Division.

His research interests are in the areas of multivariate analysis and general linear models. He has participated in research projects in critical care medicine, psychology and public health. He was also involved in the design of experiments in various fields. He has over 50 publications in statistical, health, and psychology journals.

The subject of his current talk originated during his sabbatical leave which he spent at the International Institute of Applied Systems Analysis near Vienna, Austria. The talk, entitled, "Health and Economic Development II," may be summarized as follows.

Data from 140 countries on health measures and variables related to economic development were examined. These covered the period from 1900-1975. Percent literacy and per capita commercial energy consumption were found to have the strongest association with longevity and infant mortality among a large number of explanatory variables. In this report we derive on a statistical basis a Health Development Index which is linear in literacy and logistic in energy consumption. A country moving from the lowest to the highest points on the INDEX is expected to increase the longevity of its

Dr. Leonard Haff, a native of Oklahoma, received his M.S. (Mathematics) from Western Washington State College and Ph.D. (Statistics) from Oregon State University in 1973. Since that time he has been affiliated with the Department of Mathematics at the University of California-San Diego. Dr. Haff's writings have appeared in or been accepted by a number of journals, including the Journal of Multivariate Analysis, Journal of the American Statistical Association, and Annals of Statistics. His research interests include empirical Bayes estimation, problems involving multivariate normal mean vectors, the covariance matrix and its inverse, and the linear discriminant problem.

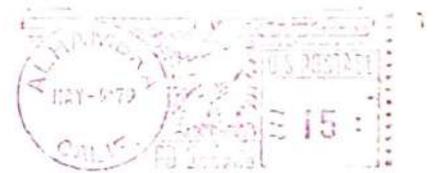
Dr. Haff's topic for the evening is titled, "The James-Stein Estimator and Certain of its Applications," and deals with the general area of empirical Bayes estimation of the multivariate normal mean. One application of this technique appeared in a recent JASA article titled, "The Multivariate Normal Mean with Intraclass Correlated Components: Estimation of Urban Fire Alarm Probability." The article addresses the question of whether a sounding fire alarm is actually indicating a structural fire rather than a false alarm or other cause. Other applications of the Bayes estimation procedure will also be discussed.

population by 36 years and reduce infant mortality by 150 deaths per 1000 live births. In addition, we found evidence of a "time effect" operating since the turn of the century, independently of economic development. This effect accounts for an increase in longevity of 18 years and a decrease in infant mortality of 100 deaths since 1900.

American Statistical Association

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University of California
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The Southern California STATISTICIAN

✱ Meeting Memo and Newsletter ✱

Vol. 16, No. 9 Southern California Chapter American Statistical Assn. June 1979

June Meeting Announcement

THE TOPIC

The current housing situation in Los Angeles becomes more understandable if the housing market is viewed over the events of the past 10 years. The presentation will review trends in building activity (both single family homes and apartments), income, population, prices, rents and inflation. The impact of more recent events such as Proposition 13 and the increase in condominium conversions will also be discussed.

THE SPEAKER

Nancy Minter is employed in the Community Analysis and Planning Division of the Community Development Department of the City of Los Angeles. Nancy is an Operations Research Analyst, and is head of the Housing Models unit. Nancy has been with the City for almost 10 years and has been involved in urban research during that entire period. For the past three years Nancy has had responsibility for researching and producing housing information for program planning and analysis. Nancy's unit produced much of the housing data for the City Council's extensive hearings on rent control prior to enacting the rent control ordinance. Among the recent reports produced by her group are Housing Price Trends in the City of Los Angeles, Real Estate Construction Activity in the City of Los Angeles, Size Characteristics of Single Family Homes and Housing Vacancy, Price Trends and Real Estate Construction. Nancy's educational background includes a B.S. in Physics and an M.S. in Biostatistics.

LOS ANGELES

WHO: Nancy Minter

TOPIC: "The Los Angeles Housing Market - How We Got There From Here"

WHEN: Thursday, June 21, 1979
6:00 P.M. - Social Hour
7:00 P.M. - Dinner
8:00 P.M. - Presentation

PRICE: \$8.00
\$6.00 for full-time students

DINNER RESERVATIONS:

Please place your dinner reservations with Bruce Hodge by Tuesday, June 19. His telephone number is: (213) 741-4480

WHERE: UCLA Faculty Center
Redwood Dining Rooms 4 & 5
(213) 825-0877

DIRECTIONS: The UCLA Faculty Center is located on the UCLA campus at the northwest corner of Hilgard and Westholme. Approaching UCLA from Westwood Village on Westwood Blvd. turn right on Leconte then left of Hilgard to Westholme. Parking is available in Parking Structure #2 for a charge of \$1.00.

IMS & BIOMETRIC SOCIETY

Meeting will be held at UCLA
June 26 - 28. For further informa-
tion contact Leslie Mullen at:

(213) 825-1907

ELECTION RESULTS

Results of the election for 1979-1980
officers of the Southern California
Chapter of ASA and of the San Diego
Area will be announced at the June 21
meeting.

THE UCLA BUSINESS FORECAST
THE COMING BUSINESS SLOWDOWN,
HOW SOON AND HOW SEVERE?

The next UCLA Business Forecasting
Conference will be held on Thursday
afternoon, June 21, 1979, in Royce
Hall Auditorium at UCLA. The pro-
gram will include the revised UCLA
forecasts for the U.S. and California
presented by Larry J. Kimbell, Direc-
tor of UCLA Economic Models. Other
speakers are experts from business
and government. These include Preston
Martin, Chairman of PMI Mortgage In-
surance Company and former Chairman
of the Federal Home Loan Bank Board,
who will discuss the "Outlook for
Real Estate Values and Construction;"
and James Balog, Executive Vice
President and Director, Drexell, Burn-
ham, Lambert, Inc., who will discuss
the "Outlook for Interest Rates and
Stock Prices."

The program and a reservation
form can be obtained by telephoning
(213) 825-1623 or 825-7613. The
conference fee is \$35.

THANK YOU

We, the editors of this newsletter,
would like to thank all of you who by
word of mouth, letter or telephone con-
tributed items of interest to our mem-
bers for publication in the newsletter.
We hope many more of you will contri-
bute next year.

A special thank you to our fine speakers
who made our meetings this year so suc-
cessful.

And, finally, thank you, all of you
who have supported our organization by
your interest or active participation.

FUTURE MEETINGS

Have a very pleasant summer, and we
look forward to seeing you at the next
meeting, which will be in September.
See your September newsletter for
details.

SOUTHERN CALIFORNIA CHAPTER

**American
Statistical
Association**

626 NORTH GARFIELD AVENUE
ALHAMBRA, CALIF. 91802



ASA 6-77
Dr. Robert L. Newcomb
School of Social Sciences
University of California
Irvine, CA 92717

The Southern California STATISTICIAN



* Meeting Memo and Newsletter *

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September 1979

September Meeting Announcement

THE SPEAKER AND HIS TOPIC

Malcolm Pike, Professor of Community and Family Medicine at the USC School of Medicine, will be the speaker for our September meeting.

Professor Pike holds a Ph.D. degree from Aberdeen University in Aberdeen, Scotland, and has studied at several universities including the University of Witwatersrand in Johannesburg, South Africa, and Cambridge University in Cambridge, England. His professional background includes positions as member of the Statistical Research Unit of the Medical Research Council, London (the unit was based in Uganda), first assistant in the Oxford University Department of Medicine, and director of the Oxford Department of Health and Social Security. He has published numerous articles in journals such as Biometrics, the Journal of the Royal Statistical Society, and the British Medical Journal.

The following is a summary of his presentation, which is entitled, "Evaluating Cancer Risks:"

In evaluating cancer-drug use associations we are almost always forced to do "case-control" studies which compare drug use in "cases" and in "controls," rather than to do "cohort" studies which compare the natural and truly relevant statistic of incidence in "drug-takers" and in "non-drug takers." Inferences based on case-control studies may be justified by considering them as inverse sampling on an underlying cohort study. Case-control studies with conflicting results on the purported cancer causing effects of estrogen therapy at menopause will be discussed in the light of this justification.

(continued →)

WHEN: Thursday, September 27, 1979
6:00 p.m. - Social hour
7:00 p.m. - Dinner
8:00 p.m. - Presentation

WHERE: Social hour and dinner -
USC Faculty Center
Presentation -
Hoffman Hall Room 405
School of Business, USC

PRICE: \$7.50
\$5.00 for full-time students

DINNER RESERVATIONS: Please place your dinner reservations with Bruce Hodge by Tuesday the 25th. His telephone number is (213) 741-4480.

DIRECTIONS: Approaching USC from the Harbor Freeway on Exposition Blvd. (westbound), turn right (north) onto Figueroa St. (at the Chevron station) and then make an immediate left turn into University Entrance #2. Personnel at the traffic kiosk will collect the \$1.50 parking fee and direct you to parking lot E adjacent to the Faculty Center. (See map on page 3).

A multivariate statistical method based on the logistic model for the analysis of cancer-drug use associations has recently been introduced. Its use is however severely restricted because it requires inordinate amounts of computing time. Two alternate methods of getting around this problem will be discussed and use of the logistic model will be illustrated from case-control cancer studies.