



The Southern California STATISTICIAN

❖ Meeting Memo and Newsletter ❖

SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

Volume 22, No. 4

February, 1985

SAN DIEGO (AREA MEETING)

WHO: WILLIAM L. SCHUBERT
Business and Strategic Planning
La Jolla, CA 92037

TOPIC: Trend Analysis as a Management Tool

WHEN: February 15, 1985 - Friday
7:00 p.m. - Dinner
7:45 p.m. - Speaker

WHERE: The Board Room, De Sales Hall
University of San Diego

PRICE: Dinner - \$5.75 Make checks payable
to USD Food Service

RESERVATIONS: Place reservations by calling:

John Chambers
University of San Diego
(619) 260-4600

or

James D. Pugh
Naval Oceans Systems Center
(619) 225-7851

THE TOPIC

The primary function of management is to make decisions. Most decisions are based on accounting and other historic data which only tells what has happened in the past, while the business environment has continued to evolve and change. Differential calculus, the mathematics of motion, is not directly applicable but the concept of rates-of-change can be applied to business and economic data. Using a simple arithmetic calculation, similar to the calculation of the inflation rate of The Consumer Price Index, curves are plotted which show growth or decline trends, and the implied trend direction. Projection techniques, including Box-Jenkins, provide additional forward focus to the trend direction.

Rate-of-change curves clearly show the cyclic pressures underlying all business and economic data. The curves of different series can be compared directly and correlation and lead-lag effects perceived visually. Previously unknown relationships and trends are revealed and, when taken in aggregate, the trend curves of many indicators provide a matrix of evolving change. From the macro-economic level through industry and market levels down to specific operating data of a particular company, the total picture gives a comprehensive understanding of the direction of change and the effects on a specific business.

THE SPEAKER

William L. Schubert, a graduate of M.I.T., has made his career in general management and as a corporate officer of a number of public corporations. He has been involved with Business and Strategic Planning for more than twenty years and has been an independent consultant since 1969.

In his consulting practice he has used quantitative methods, including special rate-of-change cyclic forecasting techniques, to develop a unique strategic conceptual view of the future which gives both short and long term planning programs and decisions greater pragmatic validity and precision. By focusing on the cyclic nature of change, he helps management make decisions in advance and not simply in reaction to events already past.

Specific projects he has worked with have involved such specialized techniques as linear programming, risk analysis, econometric modeling, Box-Jenkins time series analysis, business cycle analysis and forecasting.

He has applied his methods and thinking for such companies as: The Williams Companies, American Airlines, The McCall Corporation, Knox Glass Company, Pepsico, The Philco Corporation, Reading & Bates, The Bank of Oklahoma, Blythe Eastman Dillion, Gulf & Western Industries, The Public Service Company of Oklahoma, and numerous others.

A POTPOURRI OF DECISION ANALYSIS APPLICATIONS:

Structuring Objectives, Health Risks Induced by the Costs of Regulations, and Marketing High-Tech Business Items

RALPH L. KEENEY

Professor of Systems Science
Institute of Safety and Systems Management
University of Southern California

WEDNESDAY, FEBRUARY 20, 1985

8:00 PM

University Club, Room C
University of California, Irvine

Co-sponsored by the Graduate School of Management of the University of California, Irvine, and the Orange County Chapter of the Operations Research Society of America - The Institute of Management Sciences.

6:00 p.m. - No-host Cocktails
6:30 p.m. - Dinner
8:00 p.m. - Speaker

Reservations by Friday February 15

Dr. Vicki Bier
Pickard, Lowe, and Garrick, Inc.
(714) 650-8000

or

Prof. Carlton Scott
GSM, UC Irvine
(714) 856-5232

Dinner Cost: \$16 per person

CAREERS DAY

We have just received word that Careers Day is all set to go. It will take place on April 20, 1985 at the Department of Water and Power Building, Los Angeles between 11:00 a.m. and 3:00 p.m. Students will get a chance to meet working statisticians. There will be a charge of \$5.00 for student members and \$8.00 for non-student members. For more information call Lydia Gans, at CalPoly, Pomona (714) 598-4439. We should have more information in the next newsletter.

STATISTICS AND MARKETING RESEARCH INTEREST GROUP

Thanks to half a dozen or so SCASA members who responded promptly to the call for a Statistics/Marketing Research interest group, which appeared in the January 1985 Newsletter. If some of you haven't responded yet but have an interest in this project, please drop a line. I will call for an informal meeting of the group sometime mid-March.

Alladi Venkatesh
SCASA Newsletter Editor

THE RAND CORPORATION STATISTICS SEMINAR SERIES

Sponsored by the Statistical Research and Consulting Group, Department of Economics

Date	Speaker	Title or Topic
Feb. 2	Prof. David Freedman Dept. of Statistics UC Berkeley	"Regression models for adjusting the 1980 Census"
Mar. 7	Prof. Paul Meier Dept. of Statistics, Pharmacological and Physiological Sciences, and Medicine University of Chicago	"Stopping rules for clinical trials: bias, ethics, and other issues"
Apr. 11	Prof. Stephen Fienberg Dept. of Statistics Carnegie-Mellon University	"Parallels between sample surveys and randomized experiments"
May 9	Prof. Richard Olshen Dept. of Mathematics UC San Diego	"Statistical modeling in neurophysiology (gait analysis); or a topic in pharmacokinetics"
June 7	Prof. Leo Goodman Depts. of Statistics and Sociology University of Chicago	"Categorical Data Analysis"

All seminars will be on Thursday afternoons from 4 to 5 pm in the Main Conference Room at The Rand Corporation 1700 Main Street, Santa Monica, unless otherwise specified. Refreshments will be served from 3:30 to 4 pm outside the Main Conference Room and there will be time for questions and discussion with the speaker from 5 pm on. All who are interested are invited to attend; non-Rand people should come to the East Lobby (the one with the flagpole outside, across the street from Santa Monica's City Hall) between 3:30 and 4 on seminar day, and someone will be there to help you get to the Main Conference Room. For more information, contact David Draper at (213) 393-0411 (ext. 7713).

SCASA GRAPEVINE

HILLARY HERRING, works for Northrop as a Lead Planner and uses regression analysis, principal component techniques in predicting manpower requirements.... TARROW INDOV, Professor of Psychology at UC Irvine may be contacted for his recent papers, "An Approach to Geometry of Visual Space" in *Journal of Mathematical Psychology* (1982, 26:204-236) and, "Multidimensional Mapping of Munsell Colors" in *Color Research and Application* (1983, 8:145-152).....JOHN P. WALTER, Professor of Computer Systems, Cal State University Dominguez Hills is completing a book, *Analysis and Design of Business Systems*, to be published by John Wiley & Sons.....JAMES 'BIM' BECKMAN Ph.D. is a Vice President of Marketing with Goldwell Investments and an independent marketing consultant in real estate and politics. He is currently serving as an officer of the National Association of Business Economists and has delivered a paper on the "Economic Development of 'Inland Empire'".....JOSEPH M. MOSER San Diego State University has just completed a paper on "Multiple Latin Squares".....LLOYD PRICE has recently started his own business in computerization control to assist organizations with data entry, coding structures, data base designs, processing procedures. He can be contacted at (818) 349-4613.....JO SERVICE, Chancellor's Office California State University recently (1984) delivered a paper "Intuitive/Counterintuitive Statistics at the Thirteenth Annual State of Jefferson Mathematics Congress.....ROSS CONNER, Professor at UC Irvine, Social Ecology Program has edited a new book (just released), *Evaluation Studies Review Annual*, Vol. 9 (Sage Publications) with two of the nine main sections of the volume focused on topics of interest to SCASA members, "Sampling and Measurement Issues in Evaluation" and "Analyzing and Interpreting Evaluation Data".....NICK FARNUM, Ford Aerospace (Aeronautics Division) who is an in-house consultant for applied and theoretical statistics problems, is a speaker at upcoming Western Regional ASQC conference and is currently writing his second book, *Statistical Forecasting*. He participated in Ford's world-wide Statistical Methods Council with W. E. DEMING as principal consultant.....

SOUTHERN CALIFORNIA CHAPTER

American Statistical Association

Alladi Venkatesh
Graduate School of Management
University of California
Irvine, CA 92717



The Southern California STATISTICIAN

✧ Meeting Memo and Newsletter ✧

SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

Volume 22, No. 5

March, 1985

LOS ANGELES AREA JOINT ASA - TIMS/ORSA MEETING

WHO: JAMES D. BROWNLOW
Avionics Systems Engineering
Lockheed California Company
Burbank

TOPIC: An Application of State - Space Forecasting
Methods to Predicting the Results of NFL
Games

WHEN: March 26, 1985 - Tuesday
6:30 - 7:30 pm Social Hour
7:30 - 8:30 pm Dinner
8:30 - 9:30 pm Speaker

WHERE: Lobster House
4211 Admiralty Way
Marina Del Rey, CA

PRICE: Dinner - \$15.00

RESERVATIONS: Place reservations by calling:
Mary Ann Hill or Edward Fong
(213) 475-5700 (213) 689-4267

THE TOPIC

A discrete-time state-space model is formulated to predict the results of NFL games. A state vector of team rating values is defined and a Kalman filter is used to estimate the state vector. The state transition matrix is assumed to follow a second order ARMAX model. Parameter estimation as well as model performance in previous seasons are also addressed.

THE SPEAKER

Jim Brownlow is currently an Adjunct Associate Professor with the Department of System Sciences at the University of Southern California. He has taught various statistics and quantitative analysis courses at USC since 1979. Jim is also a full-time member of the Avionics Systems Engineering staff at the Lockheed California Company in Burbank. Jim has a Bachelors in Mathematics from Occidental College and a Masters in Mathematics from Kansas University. He received his Ph.D. in Applied Statistics from the University of California at Riverside in 1980.

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) POPULATION RESEARCH LABORATORY TRAINING PROGRAM (May 13 - June 28 and July 1 - August 16, 1985)

The above program is offered through a series of courses during May 13-June 28: (1) Methods of Population and Ecological Analysis, (2) Population Trends: Public and Private Policies. Courses for July 1-August 16 are: (1) Computer Applications to Sociology and Other Social Sciences; and (2) Fertility Control Policies. Telephone (213) 743-2950 or write Department of Sociology Population Research Laboratory, Research Annex 385, USC, 90007. (Check with them about the second sequence of courses July 1-August 16.--Ed.)

FOURTH ANNUAL WORKSHOP IN APPLIED STATISTICS SATURDAY, 27 APRIL 1985

The subject of the workshop is STATISTICAL GRAPHICS. An announcement and registration form will be mailed to you in the near future. In the meantime mark your calendar. For further information, call the Workshop Registrar, Noel Wheeler, at (213) 825-3296.

INLAND EMPIRE AREA

WHO: DAVID ROTHMAN
Martin and Stern, Inc.

TOPIC: Ranking in Football and Chess

WHEN: April 11, 1985
6:00 pm Beer and Pizza (Room Stat-
Comp. 2635)
7:30 pm Speaker (Room Stat-
Comp. 8650)

WHERE: Statistics-Computer Building
University of California, Riverside

DIRECTIONS: Take University Avenue exit off Highway
60. Enter the campus and drive around
the circuit road and park in lot 13,
across from the Statistics-Computer
building.

PRICE: \$5.00 members; \$4.00 student-members

RESERVATIONS: Please make by Tuesday, April 9 with
Barbara McNitt (714) 787-3776.

THE TOPIC

Various defects have been found in the wire service, NCAA, and NAIA polls traditionally relied upon in college football, and in the objective methods proposed as remedies (linear models, Jech's procedure published in USA Today). A technique developed in 1971, however, meets all the practical constraints one would impose on standings in college or professional football. Several full-scale examples will be reviewed, including the controversial 1984 college championship awarded to Brigham Young by the wire services.

THE SPEAKER

Mr. Rothman is a statistician/mathematician/systems analyst who has extensive experience in system algorithm development, battlefield simulation and the design and analysis of experiments. In addition he has a long term interest in statistics in sports and competition. He received undergraduate and graduate training in mathematics at the University of Wisconsin (Madison).

SAN DIEGO AREA MEETING

WHO: RICHARD OLSHEN, Ph.D.
Department of Mathematics
U.C. San Diego

TOPIC: Statistics in Gait Analysis

WHEN: Friday, April 19, 1985
6:00 - 7:00 pm Social Hour
7:00 - 7:45 pm Dinner
7:45 - 9:00 pm Speaker

WHERE: The Board Room of De Sales Hall
University of San Diego
(NOTE: This is not the same as
UC San Diego.)

PRICE: \$5.75

RESERVATIONS: Call John S. Chambers (619) 260-4600
or James Pugh (619) 225-7851

(Continued

THE TOPIC

gait analysis is the study of human walking. It involves certain angular rotations measured by high speed photography, forces exerted by the foot measured with a force plate, and muscle firing as measured by electro-myography. The resulting data are used to gauge neurologic development in normal individuals and to quantify neurologic abnormality. Angular rotations are fit by random coefficient trigonometric regression and the boot strap is used in a non-standard sequence to assess prediction intervals for rotation. Techniques of clustering and classification have been applied with success to the staging Ducherine muscular dystrophy.

SANTA BARBARA AREA MEETING

WHO: PROFESSOR STEPHEN FEINBERG
Carnegie Mellon University
(Visiting the Center for Behavioral
Sciences, Stanford University)

TOPIC: Statistics in Litigation

WHEN: Wednesday, April 10, 1985

6:00 - 7:00 pm Social Hour
7:00 - 8:00 pm Dinner
8:00 - 9:00 pm Speaker

WHERE: Faculty Club
University of California
Santa Barbara

PRICE: \$9.00 Members
\$7.00 Students

RESERVATIONS: Call by Friday April 5, 1985

Santa Barbara Area:
S. R. Jammalamadaka (805) 961-3119

San Luis Obispo Area:
James S. Daly (805) 546-2709

Los Angeles Area:
Marge Lebsock (213) 475-5700

THE SPEAKER

Professor Stephen Feinberg, one of the foremost authorities on the analysis of cross classified categorical data, was educated at the Universities of Toronto and Harvard. He is on the faculty at Carnegie-Mellon and is currently visiting the Center for Behavioral Sciences, Stanford. He is a Fellow of the American Statistical Association, the Royal Statistical Society and the American Association for the Advancement of Science.

THE TOPIC

The past decade has seen a phenomenal growth in the use of statistical assessments as evidence in legal settings. The attendant involvement of statisticians and other quantitative behavioral and social scientists as expert witnesses raises some very basic issues for both statistics and the law, as well as for the behavioral and social sciences more broadly. This presentation will describe aspects of this legal involvement and the issues it raises, as well as the evolution of the reactions of the legal system to statistical forms of evidence. Examples will be drawn from actual courtroom testimony and legal cases in some of which the author has been involved as an expert witness.

ALLADI VENKATESH
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SOUTHERN CALIFORNIA CHAPTER

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(If your address is incorrect, please notify Alladi Venkatesh)

POSITIONS ...

Alpha Therapeutic Corporation invites applications from scientists with statistical background.

Job Description: Plan and manage the clinical and pre-clinical research activities Flusol-DA clinical projects. Complete data analysis and summaries of research projects for government submission. Supervision and training of specialists, assistants and clerks.

Job Requirements: Ph.D. in biological or chemistry sciences. Strong emphasis in statistical analysis. Clinical research experience in academic, pharmaceutical, or device industry required. Working knowledge of sciences, formulate, evaluate, and conduct clinical research protocols. Ability to interact with staff and investigators is essential.

POSITIONS CONTINUED ...

Senior Office Automation Analyst (Salary mid to high \$30K) Location: Orange County. Needs to have heavy SAS experience and be able to interact with people in Business Modeling. For more information call Owen Morris at InfoTek (213) 458-8008.

Information Center Analysts (Salary up to \$50K) for a firm in downtown LA. Total familiarity with SAS. Will work in the corporate head office and interact with people across different levels including the Chief Financial Officer. Job involves training others to teach SAS to ultimate users. For more information call Owen Morris at InfoTek (213) 458-8008.

CAREER UPDATE

All the thirty campuses in the San Luis Obispo and San Diego corridor were contacted. The following organizations have committed to send professional statisticians to chat with students on careers in statistics. The names of the organizations are:

Hughes Aircraft; Sunkist; Kaiser-Permanente; Grey Advertising Research; L.A. Times; California State Chancellor's Office; California Department of Insurance.

Others are expected to send in their representatives.

Registration forms are being sent out to all ASA faculty members and Career Centers. All registrations have to be paid for in advance. The registration fee is \$5.00 for students and \$8.00 for others. Advance registration is required to enter the premises. Please note that we are not allowed to accept payment at the site.

The schedule is as follows:

DATE: April 20, 1985

TIME: 11:00 - 3:00 pm

LOCATION: Department of Water and Power Bldg.
Los Angeles

LUNCHEON: Rod Hocking
SPEAKER: American Statistical Association

For additional information call:

Lydia Gans (714) 598-4439 or
Phillip Lesser (714) 983-9811



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SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

Volume 22, No 7

May 1985

POMONA AREA MEETING

Who: Professor Dallas Johnson
Department of Statistics
Kansas State University

Topic: Multiplicative Interaction Models

When: Thursday, May 16, 1985
6.00 p.m. Social Hour
7.00 p.m. Dinner
8.00 p.m. Speaker

Where: The University House, California
Polytechnic State University, Pomona

Directions: Exit Kellogg Dr from the San Bernardino Fwy or Temple from 57 Fwy. Once on campus, proceed to the Administration Bldg at the corner of University Dr and Mansion Lane. Take Mansion Lane to the top of the hill where there is parking for the University House (the old Kellogg Mansion).

Price: \$10.00 Regular charge
\$ 8.00 Full-time students

Reservations: Call by Tuesday, May 14 one of the following:

Lydia Gans (714) 598-4421
Bob Newcomb (714) 856-5366
Holly Hartman (714) 382-2342

THE TOPIC

The multiplicative interaction model has been proposed as one method for analyzing cross-classified experiments which have been replicated. This talk will review the available techniques for non-replicated experiments including Tukey's "Single-Degree-of-Freedom for Nonadditivity" and Mandel's "Bundle of Straight Lines Model", as well as the " Multiplicative Interaction Model".

THE SPEAKER

Dr. Dallas Johnson is a Professor in the Department of Statistics and a Consultant in the Statistical Lab at Kansas State U. Dr. Johnson has considerable experience in statistical consulting in industrial engineering, agronomy, animal sciences, veterinary medicine, and business activities. He is a Fellow of the ASA, and a member of The Institute of Mathematical Statistics and the Biometric Society(ENAR). Dr. Johnson received his Ph.D from Colorado State University.

LOS ANGELES AREA MEETING

WHO: Professor Dallas Johnson
Department of Statistics
Kansas State University

Topic: A New Principal Components Type Analysis with an Application to Interpreting Multi-Spectral Reflectances

When: Friday, May 17, 1985
11.30 a.m. Lunch
1.00 p.m. Speaker

When: UCLA Faculty Center
Parking in Structure No.2 for \$2.00

Directions: The UCLA Faculty Center is at the northwest corner of Hilgard and Westholme. In case of a problem go to any parking kiosk on Campus.

Price: General - \$7.50
Full-time students - \$6.50

Reservations: Call any of the following by May 14:

Mary Ann Hill (213) 475-5700
Bob Newcomb (714) 856-5366
Holly Hartman (714) 382-2342

THE TOPIC

This paper proposes a new method for reducing the dimensionality of a multidimensional sample space. The procedure introduced here generalizes the Principal Components Analysis(PCA) and may help researchers to obtain components which can be interpreted more easily than components obtained from PCA or Factor Analysis. The procedure is applied to Spectral Reflectance data collected from crop plant canopies throughout a growing season.

(For a bio of the speaker, please refer to Pomona meeting).

THE RAND CORPORATION - STATISTICS SEMINAR SERIES

May 16- Prof. Carl Morris, Center for Statistical Science, University of Texas, Austin, on " An Empirical Bayes Approach to Spatial Analysis."

June 13 - Prof. Ingram Olkin, Dept of Statistics, Stanford University, on Modeling Bivariate Data".

Location- Main Conference Rm, Rand Corp, 1700 Main, Santa Monica

Refreshments: Will be served between 3:30 to 4 pm.
(Non-Rand people should go to the East Lobby across the street from Santa Monica City Hall. Someone will help you.)

LOS ANGELES AREA MEETING

Who: Dr. Janet Elashoff
 UCLA Center for Ulcer Research and Education (CURE)

TOPIC: Interpreting the Results of Clinical Trials When Some Outcome Events are Unobservable - Can Modeling Help?

When: Thursday, May 23, 1985

6.00 p.m Social Hour
 7.00 p.m Dinner
 8.00 p.m Speaker

Where: UCLA Faculty Center

Price: \$12.50 (Prime-rib dinner)

Reservations: Call Mary Ann Hill (213)475-5700, or Bob Newcomb (714) 856-5366

THE TOPIC

A drug company wished to establish that use of their drug for maintenance therapy of duodenal ulcer would prevent ulcer recurrences. If all recurrences were symptomatic, then the trial results can be analyzed by survival analysis methods. However, a majority of the observed recurrences in both the placebo and treated groups were asymptomatic or silent ulcers detected at routine endoscopies scheduled at 4 mos, 8 mos and a year. Does significant reduction in observed recurrences by the drug allow the conclusion that the drug prevents recurrence or could a higher fraction of ulcers have recurred, healed, and disappeared in the treated group?

The speaker will detail joint attempts by herself, Dr George Chi, and Dr. Gary Koch to resolve these questions through Markov chain modeling of the recurrence and healing processes.

THE SPEAKER

Dr Janet Elashoff is an Adjunct Professor of Biomathematics at the UCLA Center for Ulcer Research and Education. She received a B.S from Stanford and a Ph.D from Harvard, both in Statistics. Among her numerous honors include, a Fellow of the American Association for the Advancement of Science, a Fellow of the ASA, and a Fellow of the Royal Statistical Society. She has served on several national panels on biomedical research and has held positions on the Editorial Boards of prestigious journals. She is currently an Associate Editor of Biometrics.

ALLADI VENKATESH
 Graduate School of Management
 University of California
 Irvine, CA. 92717

SOUTHERN CALIFORNIA CHAPTER

**American
 Statistical
 Association**

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (AAAS)

Washington D.C.... Is the "Star Wars" technology possible? Does the first child make a difference? What can supercomputers do? Does homophobia affect research on AIDS? What uses will be made of synthetic DNA? Should animals be used in research?

These are some of the questions to be discussed at the 151st national meeting of the AAAS, May 26-31 1985 in Los Angeles. Several thousand scientists, engineers, and others interested in science and technology are expected to attend the meeting which will be headquartered at the Westin Bonaventure and Los Angeles Hilton Hotels.

"Science and Engineering: Diversity and Convergence" will be the theme for the meeting, where over 160 symposia will feature recent advances on lasers, sign language and apes Halley's Comet, neuroscience, Hollywood and science, technology to aid the disabled, scientific freedom and national security, and hazardous wastes.

Nine public lectures dealing with popular aspects of science, a special day-long program of science symposia for young people, and the Science Film Festival, featuring some 50 of the best recent science films, will be included in the program. The AAAS Annual Meeting Exhibit will feature displays by scientific publishers, associations, corporations, and government agencies.

For further information call Joan Wrather (202) 467-5441. For a preliminary program see the March 8th, 1985 issue of SCIENCE, the weekly journal of the AAAS.

The American Association for the Advancement of Science, formed in 1848, is the leading general scientific organization in the United States. It currently boasts of some 136,000 members and approximately 285 affiliated scientific and engineering societies and academies of science.

A Unique Book.....

of interest to statisticians, biomathematicians, data analysts and other researchers...

THE VISUAL DISPLAY OF QUANTITATIVE INFORMATION
 by
 Edward R. Tufte

Extra copies of Dr. Tufte's books available from the 1985 SCASA Workshop in Applied Statistics. For copies of the book (\$25 plus mailing costs should call Noel Wheeler, Dept of Biomathematics, AV-617 Center for the Health Sciences, UCLA at (213) 825-3296 or 206-1704 by May 15, 1985.

(If your address is incorrect, please notify Alladi Venkatesh)



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SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

Volume 23, No. 1

December, 1985

SANTA BARBARA AREA CHAPTER MEETING

WHO: JOSEPH GANI
Chairman of the Statistics and Applied Probability Program, University of California, Santa Barbara

TOPIC: Statistical Research and Consulting in Australia

WHEN: Tuesday, December 3, 1985
6:00 p.m. - Social Hour
7:00 p.m. - Dinner
8:00 p.m. - Speaker

WHERE: The Faculty Club
University of California
Santa Barbara

PRICE: Dinner will cost \$9.00 (\$7.00 for full-time students). There is no charge for the after-dinner program.

RESERVATIONS: Please place your dinner reservations before NOON, MONDAY, DECEMBER 2 by calling one of the following numbers:

Santa Barbara:
S. R. Jammalamadaka [805] 961-3119
Leslie Brandt [805] 961-2129

San Luis Obispo:
James Daley [805] 546-2709

Orange County:
Bob Newcomb [714] 856-7027

Los Angeles Area:
Marge Lebsock (BMDP) [213] 475-5700

The Topic

As a result of historical accident, and perhaps the strong practical bent of Australians, statistical research and consulting have flourished in Australia since the 1930's. Among eminent Australian statisticians are Pitman, Cornish, Moran, Lancaster, Williams, and Hannan.

The Government's CSIRO Division of Mathematics and Statistics has also contributed to both statistical research and consulting, and has fathered SIROMATH, a growing commercial consulting firm. Universities have also become involved in commercial consulting, some very successfully.

A few conclusions are drawn from past experience, and suggestions made about future developments.

LOS ANGELES AREA CHAPTER MEETING

WHO: ROD LITTLE
Associate Professor, Department of Biomathematics, University of California, Los Angeles

TOPIC: Statists and the World Fertility Survey

WHEN: Tuesday, December 10, 1985
6:00 p.m. - Social Hour
7:00 p.m. - Dinner
8:00 p.m. - Speaker

WHERE: Sierra Room
UCLA Faculty Center

PRICE: Dinner will cost \$10.00 (\$8.00 for full-time students). There is no charge for the after-dinner program.

RESERVATIONS: Please place your dinner reservations by FRIDAY, NOVEMBER 29 by calling one of the following numbers:

Los Angeles Area:
Marge Lebsock (BMDP) [213] 475-5700

Pomona:
Lydia Gans [714] 598-4439

Riverside:
Barbara McNitt [805] 546-2709

Orange County:
Bob Newcomb [714] 856-7027

The Topic

Between 1972 and 1984, the World Fertility Survey (WFS) conducted national surveys of human fertility in 42 developing countries and 20 developed countries. Its first director, the late Sir Maurice Kendall, was fond of describing it as the "largest science project in the world."

The survey provided an immense body of detailed data, the analysis of which posed a considerable challenge to statisticians and demographers. This talk will review the statistical issues that arose in the analysis including the formulation of appropriate regression models for demographic data, the role of path analysis for causal modeling and the impact of the survey design on estimation.

Upcoming Chapter Events

January 30: A Chapter meeting will be held at the Claremont Colleges. Speaker to be announced. For more information, call Don Bentley at [714] 624-9195.

THE SANTA BARBARA SPEAKER

Professor Joseph Gani is chairman of the statistics program at UCSB, and has contributed to the solution of several statistical and applied probability problems. His current work is in epidemic modelling. He was head of the Department of Probability and Statistics at Sheffield University in England between 1965 and 1974 and Chief of the CSIRO Division of Mathematics and Statistics in Canberra from 1974 to 1981. He came to the USA in 1981 and has just joined UCSB from the University of Kentucky.

THE LOS ANGELES SPEAKER

Rod Little is an associate professor at UCLA in the Department of Biomathematics. After receiving his Ph.D. under David Cox and Martin Beale at Imperial College, London, he was a member of the WFS research team for 4 years. He has taught at the University of Chicago and worked in Washington, D.C. A book coauthored with Don Rubin, "Statistical Analysis with Missing Data," will be published in May by John Wiley & Sons.

ANNOUNCEMENT OF CHAPTER OFFICERS FOR 1985-86

The Committee on Elections hereby reports the Chapter Officers as duly elected for the Chapter year 1985-86:

- PRESIDENT ELECT: Jim Taylor
Kaiser Health Plan
- VICE-PRESIDENT, ACADEMIC Lydia Gans
Cal-Poly, Pomona
- VICE-PRESIDENT, PROFESSIONAL Phillip Lesser
Sunkist Growers
- SECRETARY Janet Elashoff
V.A. Hospital, L.A.
- TREASURER Jolayne Service
Cal State University

A NOTE FROM THE CHAPTER PRESIDENT: I wish to acknowledge and thank Orville Allen for his work as Chairman of this year's Committee on Elections. His efforts are much appreciated.

Graduate School of Management
University of California
Irvine, California 92717
Alladi Venkatesh

SOUTHERN CALIFORNIA CHAPTER

American Statistical Association

(If the above address is incorrect, please notify Alladi Venkatesh)

EMPLOYMENT OPPORTUNITIES

SURGICAL NEUROLOGY AND EPILEPSY CENTER

KING/DREW MEDICAL CENTER

PROJECT COORDINATOR: Coordinate an NIH funded clinical trial. develop data collection instruments, monitor data collection and insure study protocols are properly executed. Assist with data analysis. Document procedures. MS or equivalent experience in epidemiology or related field. Prefer PhD. Start immediately.

BIostatistician: Design data collection forms; design and implement data bases using SAS and BMDP; supervise data input and quality control. Produce special purpose computer programs. Perform statistical analyses. Assist in writing reports and other documentation. Master's degree or equivalent experience in biostatistics. Start immediately.

PROJECT COORDINATOR: Coordinate activities on two NIH studies on epilepsy and seizure disorders. Develop data collection instruments and monitor data collection. Insure study protocols are properly executed. Supervise clinical and research staffs. Assist with data analysis. MS degree or equivalent experience in epidemiology or related field. PhD preferred. Start 1/1/86.

CONTACT: Dr. George Locke
Surgical Neurology/Epilepsy Center
King/Drew Medical Center
[213] 603-4523

NISSAN MOTOR CORPORATION in U.S.A.

National Headquarters, Nissan Motor Corporation in U.S.A., has an immediate need for 4 statistician. These are newly created positions whose responsibilities will include counseling corporate Service staff concerning the analysis of new and historical data covering customer characteristics and attitudes, product performance, and business systems issues. Masters Degree in applied statistics or equivalent is required. Working knowledge of statistical software (eg. SAS) required.

CONTACT: Mr. Larry Comp
Nissan Motor Corp. in U.S.A.
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