*** RESCHEDULED DUE TO EARTHQUAKE ***

DECEMBER 14, 1989 THURSDAY
Nicholas Jewell
"Statistical Analysis of HIV Infectivity"

JANUARY 11, 1990 THURSDAY
Ingram Olkin
"Meta-Analysis: Current Issues in Research Synthesis"

JANUARY 17, 1990 WEDNESDAY
Daniel Rubinfeld
"Estimating Litigation Damages"

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JOINT GENERAL APPLICATIONS AND BIOSTATISTICS PROGRAM

SPEAKER: Nicholas P. Jewell
Professor of Biostatistics and Statistics
University of California, Berkeley

TOPIC:
"STATISTICAL ANALYSIS OF HIV INFECTION BASED ON PARTNER STUDIES"

Partner studies produce data on the infection status of partners of individuals known or assumed to be infected with the Human Immunodeficiency Virus (HIV) after a known or estimated number of contacts. Previous studies have assumed a constant probability of transmission (infectivity) of the virus at each contact. Recently, interest has focused on the possibility of heterogeneity of infectivity across partnerships. This talk will discuss parametric and nonparametric procedures based on partner data to examine the risk of infection after a given number of contacts. Graphical methods and inference techniques will be presented which allow the investigator to evaluate the constant infectivity model and consider the impact of heterogeneity of infectivity, error in measurement of the number of contacts and regression effects of other covariates. The majority of the methods can be computationally implemented easily with use of software to fit generalized linear models. The concepts and techniques are closely related to ideas from discrete survival analysis. A dataset of heterosexual transmission will be used to illustrate the methods. The material is joint work with Stephen C. Shboski.

DATE: December 14, 1989 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Shultz Auditorium
Health Resources and Policy Building

Directions: From El Camino in Palo Alto, drive onto Palm Drive heading toward the university. At Campus Drive, turn right. The Human Resources and Policy Building will be on your left on Campus Drive near the multi-story parking structure in which free parking is available. See map on the reverse of this announcement.

There will be an informal dinner after the talk.

COUNSEL OF CHAPTERS REP.
Alvin D. Wiggins
(415) 752-7523

PRESIDENT
Florence Van Geem
(415) 271-5087

PRESIDENT ELECT
Kelvin K. Lee
(415) 852-3253

VICE PRESIDENT
Dean H. Fearn
(415) 881-3447

GENERAL APPLICATIONS PROGRAMS

VICE PRESIDENT
Biostatistical Programs
Mike Tater
(415) 842-4610

TREASURER
Anna Bagisiewicz
(415) 855-5299

SECRETARY
Rose Rey
(415) 856-8400

ASOC TASK GROUP REP.
Fred Khoroski
(408) 779-0035

ASOC STATISTICAL TASK GROUP
Curtis Engelhardt
(408) 765-6325

(415) 881-3447

(415) 881-3447
Parking permits are required in 'A' and 'C' lots from 6 am to 5 pm, Monday through Friday. At other hours, these lots are free and open to the public.

MARGUERITE shuttle service (FREE)
Monday through Friday, all year. The Marguerie serves the campus, its centers, downtown Palo Alto, and SLAC.

For information, call the Stanford Office of Transportation Programs at (415) 723-4375.
BIOSTATISTICS PROGRAM

SPEAKER: Ingram Olkin
Professor of Statistics
Stanford

TOPIC: "META-ANALYSIS: Current Issues in Research Synthesis"

The concept of aggregating the results of different experiments has a
history of at least 50 years in the physical and agricultural sciences.
It was the introduction of this concept in the social and health
sciences in the late 1970's that set the stage for a stream of papers
pooling results from randomized controlled trials in medicine as well as
other fields.

In this talk, we review the history of Meta-Analysis, discuss some of
the critical controversial issues and pose some technical problems that
remain unsolved.

DATE: January 11, 1990 (Thursday)
3:30 - 4:00 Coffee
4:10 - 5:00 Presentation

PLACE: University of California at San Francisco
Nursing 721

GENERAL APPLICATIONS PROGRAM

SPEAKER: Daniel Rubinfeld
School of Law
Boalt Hall
University of California, Berkeley

TOPIC: "Estimating Litigation Damages"

The application of forecasting techniques involving regression or ARIMA
models to the court's determination of damages will be discussed.
Examples will be based upon a number of recent tort and anti-trust
cases.

DATE: January 17, 1990 (Wednesday)
3:30 - 4:00 Coffee
4:10 - 5:00 Presentation

PLACE: Kaiser Oakland
1950 Franklin
Second Floor Cafeteria and Conference Room

STATS: The magazine for Student of Statistics.
The latest issue of this new ASA publication has articles on the space
shuttle Challenger, "Statistics and the Death Penalty" as well as profiles of
several statistics departments and information on summer internship programs.
The publication is aimed at beginning statisticians and students of
statistics. The ASA encourages chairpersons of departments of statistics to
obtain copies for distribution throughout their recruitment area.
Complementary copies of the first issue are available through the national
office. (Bulk rate of $2.00 per copy for orders of 10 or more). American
SF Bay Area Chapter Business

ADDRESS CHANGES/DUES:

Changes of address should be sent to the chapter treasurer, Anna Bagniewska at the address listed below.

Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $8 to:

Anna Bagniewska
Syntex Labs
34012 Hillview Avenue L-2500
Palo Alto, CA 94303

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EMPLOYMENT OPPORTUNITIES

1. BIOANALYST II, Syntex, Palo Alto

RESPONSIBILITIES: Provide analysis support to biostatisticians using SAS package and other computer software packages such as BMDP. Establish the accuracy of the data prior to analysis. Create SAS files, produce final statistical report tables, data listings, CRF tabulations, and graphs. Verify analysis outputs/results prior to presenting them to the biostatisticians or other clients. Ensure accuracy, and timeliness. Document analysis programs, corrections to the dataset, and archive files following standard operating procedures.

REQUIREMENTS: B.S in statistics, computer science or related field with at least 2 years of experience, or M.S. degree in similar field with at least 1 year of experience in SAS programming. The candidate must know routinely used SAS procedures well. Must be able to communicate and interact with biostatisticians and other co-workers. Have interest in statistical applications, software languages, and the use of computer facilities and systems.

SEND RESUME: Roxanne Naes, Staffing Department, L-110A, Syntex Labs, 3401 Hillview Ave., Palo Alto, CA 94304.
Or Call Ling-ling Tsao (415) 855-6532.
CALENDAR

NOVEMBER 30, 1989 THURSDAY Walter Hauck
"Logit Models: Cluster Effects, Population
Averaging, and Omitted Covariates"

*** RESCHEDULED DUE TO EARTHQUAKE ***
DECEMBER 14, 1989 THURSDAY Nicholas Jewell
"Statistical Analysis of HIV Infectivity"

BIOSTATISTICS PROGRAM

SPEAKER: Walter W. Hauck
Department of Epidemiology and Statistics
UCSF

TOPIC: "LOGIT MODELS: Cluster Effects, Population Averaging, and Omitted
Covariates"

When estimating odds ratios there are two phenomena that one must be
aware of.

The first of these phenomena is that population-averaged and cluster
specific logistic models have parameters with different interpretations.
This is in contrast to models for Gaussian outcomes where there is no
distinction. In addition, the population-averaged logistic coefficients
will tend to be closer to the null than the corresponding cluster-
specific coefficients.

The second of these phenomena results when "maverick" covariates are
omitted from logistic models. By "maverick" covariates we mean variables
that are related either to the outcome or the exposure, but not both,
and hence are not confounders in the classical sense. Regardless,
omission of mavericks biases logistic coefficients towards the null
value.

The theme of this talk is that these are related phenomena; that they
are more easily understood by considering them together. The end result,
it is hoped, is a better understanding of the interpretation of odds
ratios and a basis for deciding on the most appropriate analyses.

DATE: November 30, 1989 (Thursday)
3:30 - 4:00 Coffee (479 Kerr Hall)
4:10 - 5:00 Presentation (176 Chemistry)

PLACE: University of California at Davis

Visitors can park in lot VP47 or lot VP25; $2. is quarters is required. There
is also parking available in lot 11. Parking in lot 11 is for 2 hours or less
only.

See the reverse of this announcement for a map of the Davis Campus.
Kerr Hall is Building 83 and Chemistry is building 9.

There will be an informal dinner after the talk.

COUNCIL OF CHAPTERS REP. Alvin D. Wiggins
(916) 752-7623

PRESIDENT Florence Van Geem
(415) 271-5967

PRESIDENT ELECT Kelvin K. Lee
(415) 852-3253

VICE PRESIDENT GENERAL APPLICATIONS PROGRAMS
Dean H. Fearn
(415) 881-3447

VICE PRESIDENT BIOSTATISTICAL PROGRAMS
Mike Tarler
(415) 642-4606

TREASURER Anna Bagniewska
(415) 855-3289

SECRETARY Rose Ray
(415) 856-9400

ASOC TASK GROUP REP. Fred Khorasani
(408) 779-0035

ASOC STATISTICAL TASK GROUP
Curtiss Englehard
(408) 765-9325
BIOSTATISTICS PROGRAM

Nicholas P. Jewell
Professor of Biostatistics and Statistics
University of California, Berkeley

TOPIC:  "STATISTICAL ANALYSIS OF HIV INFECTIVITY BASED ON PARTNER STUDIES"

Partner studies produce data on the infection status of partners of individuals known or assumed to be infected with the Human Immunodeficiency Virus (HIV) after a known or estimated number of contacts. Previous studies have assumed a constant probability of transmission (infectivity) of the virus at each contact. Recently, interest has focused on the possibility of heterogeneity of infectivity across partnerships. This talk will discuss parametric and nonparametric procedures based on partner data to examine the risk of infection after a given number of contacts. Graphical methods and inference techniques will be presented which allow the investigator to evaluate the constant infectivity model and consider the impact of heterogeneity of infectivity, error in measurement of the number of contacts and regression effects of other covariates. The majority of the methods can be computationally implemented easily with use of software to fit generalized linear models. The concepts and techniques are closely related to ideas from discrete survival analysis. A dataset of heterosexual transmission will be used to illustrate the methods. The material is joint work with Stephen C. Shiboski.

DATE: December 19, 1989 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Shultz Auditorium
Health Resources & Policy Building

Directions: From El Camino in Palo Alto, drive onto Palm Drive heading toward the university. At Campus Drive, turn right. The Medical Center will be on your right across from the multi-story parking structure in which free parking is available. See map on the reverse of this announcement.

There will be an informal dinner after the talk.

SF Bay Area Chapter Business

ADDRESS CHANGES/DUES:

Changes of address should be sent to the chapter treasurer, Anna Bagniewska at the address listed below.

Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $8 to:

Anna Bagniewska
Syntex Labs
34012 Hillview Avenue L-2500
Palo Alto, CA 94303
MESSAGE FROM THE PRESIDENT

Dear Colleagues:  

September, 1989

I am pleased to be serving as President of the Chapter for 1989-1990. The Chapter currently has close to 500 members and covers a wide geographic area from the North Bay to the South Bay, and as far east as Davis. Our members represent academia, finance, government, research, services and production. It will be my challenge to meet the professional needs of such a diverse membership. This would be close to impossible if not for the other officers of the Chapter. It is my pleasure to introduce them to you:

Kelvin Lee is President Elect and has served the Chapter for 4 years. Kelvin has been employed at the Veterans Administration for the last 11 years. His area of professional expertise is clinical trials. During the year, I will look toward Kelvin for help in developing solutions in order to better serve the members. He also will begin the planning for the 1990-1991 year.

The Chapter has two Vice Presidents whose responsibilities are to plan the monthly meetings. Dean Fearn is V.P. of the General Applications Program and Mike Tarter is V.P. of the Biostatistical Program. Dean is a professor at Hayward whose area of expertise is branching processes. He has been active in various activities of the Chapter for over 10 years. This is his second year as an officer for organizing the General Applications Program. Even though this is his first year as an officer, Mike is a long-time contributor to the local Chapter. He was instrumental in integrating the Biostatistical community with the Chapter in the early '80s. Mike currently is a professor at UC Berkeley working on various grants. Areas of expertise include computer approaches to identifying distributions and computer graphics.
Anna Bagniewska is serving her third year as Treasurer. Besides managing the books, maintaining the membership roster and mailing list, Anna has been very successful in organizing meetings in the Palo Alto area. Anna is a manager at Syntex Labs, coordinating the data reporting and collection functions.

Rose Ray first worked with the Chapter in 1987 and is currently serving her second term as secretary. She is responsible for collecting the information, writing and production of the newsletter. Job openings and relevant announcements should be sent to her. Rose’s professional interest is epidemiological techniques related to business applications.

Fred Khorasani and Curt Engelhart represent the local organization of the American Society of Quality Assurance. Since the two organizations share many common subjects of interest, the Chapter asked for representation from this organization. In the past, the Chapter and the ASQC Task Group have jointly sponsored meetings and one-day seminars.

Al Wiggins is the Chapter’s representative to the Council of Chapters. The Council is a vehicle for local Chapters to communicate and share their concerns in a broader arena. Al has served the Chapter as an officer for over three years, including President, and is well equipped to serve the interests of this Chapter.

Even with this excellent team, we need your support in making this year successful. We feel that an important objective of any organization is to provide a forum where professionals can meet other local professionals. We want to see you (new faces and old friends) at our meetings and to encourage wider participation of our 500 members. Therefore, it is important to identify topics relevant to our members. If you have ideas for topics, speakers or places for the meetings, we would like to hear from you. If you know of visitors coming to your company or institution and who would make an excellent candidate as a speaker for the monthly meetings, please contact either Dean or Mike.

Our goal this year is to organize meetings responsive to the needs of the members. We look forward to serving you and hope to see many of you at the monthly meetings.

Florence van Geem
CALENDAR

OCTOBER 19, 1989    THURSDAY    Nicholas Jewell
                  "Statistical Analysis of HIV Infectivity"

NOVEMBER 8, 1989    WEDNESDAY    Donald Ylvisaker
                  "Statistics Inside the Lottery"

GENERAL APPLICATIONS PROGRAM

SPEAKER: Nicholas P. Jewell
         Professor of Biostatistics and Statistics
         University of California, Berkeley

TOPIC: "STATISTICAL ANALYSIS OF HIV INFECTIVITY BASED ON PARTNER STUDIES"

Partner studies produce data on the infection status of partners of individuals known or assumed to be infected with the Human Immunodeficiency Virus (HIV) after a known or estimated number of contacts. Previous studies have assumed a constant probability of transmission (infectivity) of the virus at each contact. Recently, interest has focused on the possibility of heterogeneity of infectivity across partnerships. This talk will discuss parametric and nonparametric procedures based on partner data to examine the risk of infection after a given number of contacts. Graphical methods and inference techniques will be presented which allow the investigator to evaluate the constant infectivity model and consider the impact of heterogeneity of infectivity, error in measurement of the number of contacts and regression effects of other covariates. The majority of the methods can be computationally implemented easily with use of software to fit generalized linear models. The concepts and techniques are closely related to ideas from discrete survival analysis. A dataset of heterosexual transmission will be used to illustrate the methods. The material is joint work with Stephen C. Shiboski.

DATE: October 19, 1989 (Thursday)
       3:30 - 4:00    Coffee
       4:00 - 5:00    Presentation

PLACE: Stanford University Medical Center
       Room M106

Directions: From El Camino in Palo Alto, drive onto Palm Drive heading toward the university. At Campus Drive, turn right. The Medical Center will be on your right across from the multi-story parking structure in which free parking is available. See map on the reverse of this announcement.

Professor Bill Brown has kindly offered to be the local host. Refreshment will be served at his home following the presentation. Directions will be provided at the meeting. Although there will be no charge for this meeting, the chapter would like to get an idea of the attendance. Please notify Dean Pearn (415) 537-3439 or Mike Tarter (415) 624-4601, by OCTOBER 17.
GENERAL APPLICATIONS PROGRAM

SPEAKER: Donald Ylvsaker
Professor of Statistics
UCLA

TOPIC: "STATISTICS INSIDE THE LOTTERY"

The talk will cover events of interest which have transpired during a four year sting as Contract Statistician for the California and Colorado State Lotteries. In particular, the question of what has been learned over time will be addressed in various context. Topics will likely include physical equipment, inventory plans, computer simulations, randomization and issues of finance, security and marketing. There will be some focus on the lottery industry itself, and on odds and oddities which have surfaced. Questions will be especially welcomed.

DATE: November 8, 1989 (Wednesday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Pacific Bell, San Ramon
2600 Camino Ramon
The Daffodil Room ICN95

EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN, SYSTEMS APPLICATIONS, INC., San Rafael

RESPONSIBILITIES: Perform statistical analyses related to air and water pollution. Seek imaginative approaches to probing and presenting data.

REQUIREMENTS: M.S in statistics or related field. In addition to statistical expertise, candidates should possess the oral and written communication skills necessary to present results to clients. Some statistical computing and consulting experience is preferred. Ability to use statistical packages (preferably SAS) is required.

COMPANY: Systems Applications, Inc. is an environmental consulting company providing the U.S. Environmental Protection Agency and other governmental and industrial organizations with consulting services related to air and water pollution.

SEND RESUME: Job # 1-P-90, Systems Applications, Inc.
101 Lucas Valley Road, San Rafael, CA 94903.
Equal Opportunity Employer.
CHAPTER NEWS

Elizabeth King was awarded a citation and plaque for outstanding local chapter member at the August ASA national meetings in Washington D.C. This award was part of the ASA sesquicentennial celebration. The citation read in part:

For more than 20 years of devoted and enthusiastic support of the chapter as follows:

- Chapter President 1986-1987
- Handled local arrangement for National meeting with grace and aplomb.
- Served as a role model and catalyst for the growth of the chapter and enhancement of the membership.

SF Bay Area Chapter Business

DUES:

At the June 1989 business meeting Article 3 (Dues) of the Chapter's By-Laws was amended as follows:

1. The annual dues of regular and associate members be increased from $6.00 to $8.00.

2. The annual dues of student members be increased from $1.00 to $2.00.

Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $8 to:

Anna Bagniewska
Syntex Labs
34012 Millview Avenue L-2500
Palo Alto, CA 94303
ANNUAL BUSINESS MEETING AND ELECTION OF OFFICERS

Preceded by:

JOINT GENERAL APPLICATIONS AND BIOSTATISTICS PROGRAM

SPEAKER: Michael Orkin
Professor of Statistics
California State University at Hayward

TOPIC: "ODDS MAKING AND SPORTS BETTING: BOTH SIDES OF THE FENCE"

Dr. Orkin will discuss betting structures from the gambler's and
sports book maker point of view. This will include the pointy spread
system, money line bets, futures bets, proportion bets and pari-mutuel betting.

DATE: June 14, 1989 (Wednesday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Syntex Corporation, Palo Alto
3401 Hillview Avenue
Room A2-1, Gallery Building

For more detailed directions, call Kelvin Lee (415) 852-3253.

Dr. John Varadun will be the local host, there will be a special get
together after the business meeting in the Gallery area.
EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN/Epidemiologist, Failure Analysis Associates

RESPONSIBILITIES: Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performed by research assistants.

REQUIREMENTS: Ph.D in biostatistics or Public Health. Experience with analysis of NCHS and SEER databases. SAS or other statistical analysis packages is an advantage.

COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.

SEND RESUME: Personnel Manager, Failure Analysis Associates, P.O. Box 51470, Palo Alto, CA 94303. Reference AD# rr 4.22 Equal Opportunity Employer.

2. Statistical Consultant, Bank of America

RESPONSIBILITIES: Identify, conduct and implement credit scoring and behavior scoring projects in the Bankcard department. Interaction with multiple levels of management and with operating departments.

REQUIREMENTS: A Master's degree in statistics or related field and 1-2 years of experience. SAS and banking experience is preferred.

SEND RESUME: Arlene Frazier, Credit Risk Management #3407, Bank of America, 180 Montgomery Street, San Francisco, CA 94104.


RESPONSIBILITIES: Statistical programming for research investigators in medical and epidemiological studies. Develop data entry screens, maintain databases, generate reports of the results of analyses. Assist investigators in writing papers and grant proposals. Under the general guidance of the network administrator, maintain and upgrade as necessary, a Novell LAN, install new versions of network software and application programs, add new workstations and other hardware to the network. Provide consultation, support and training to department staff for LAN and PC applications. Provide consultation and programming support, as requested, to investigators at other Kaiser Permanente facilities.

REQUIREMENTS: B.S. in computer science, mathematics, statistics or life sciences; M.S. or PhD preferred. At least 5 years experience as a statistical programmer in life sciences or social sciences research environment. IBM mainframe experience in OS/MVS, JCL, TSO,SAS, PLI or related language as well as PC experience with MS/OS and dBase III is required. Experience with Novell LAN, SNA gateway, synchronous communication, desktop publishing, PC hardware interfacing, PC/SAS and Turbo-C is preferred.

SEND RESUME: Michelle Brent, KFRI/DOR, 3451 Piedmont, Oakland, CA 94611. Or call (415) 987-3083.
APPLICANT:

POSITION DESIRED: Mathematical Statistician

EXPERIENCE: Ten years (last four as a manager) at the U.S. Census Bureau. Experience in survey design, estimation procedures, technical report writing, oral presentations, methods for data collection, processing, and statistical analysis. Familiar with FORTRAN programming and statistical packages (SPSS, Minitab, SAS and BMDP). Versed in Deming's management philosophy.


CONTACT: Robert Edison (703) 971-0245 after 3pm (Pacific)

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SF Bay Area Chapter Business

DUES:

The Executive Committee of the SF Bay Area Chapter of the ASA is recommending that Article 3 (Dues) of the Chapter's By-Laws be amended as follows:

1. The annual dues of regular and associate members be increased from $6.00 to $8.00.

2. The annual dues of student members be increased from $1.00 to $2.00.

Those present at the June meeting will be asked to vote on these amendments. Passage of the amendments requires a two-thirds majority of members present and voting.

While costs of production of the newsletter (duplicating, preparation, and postage) and for the monthly meetings (e.g. meeting rooms, equipment rental) continue to rise, student dues have been held at $1.00 since 1983 and non-student dues have been held at $6.00 since 1980. The additional revenue will allow Chapter officers more latitude in planning and trying out more innovative activities, for example inviting out of state statisticians to present talks, workshops or short courses.

CHAPTER DUES: Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $6 to:

Anna Bagniewska
Syntex Labs
34012 Hillview Avenue L-2500
Palo Alto, CA 94304
ELECTION OF OFFICERS:

The following slate of officers for the 1989-1990 term have been proposed by the nominating committee.

President -Elect
Kelvin Lee, Biostatistician
Veterans Administration, Palo Alto

Vice President
Dean Fearn, Statistics Department
General Applications
California State University at Hayward

Vice President
Mike Tarter, Biostatistics Department
Biostatistics
University of California, Berkeley

Treasurer
Anna Bagniewska, Biostatistician
Synix Labs, Palo Alto

Secretary
Rose Ray, Statistician
Failure Analysis Assoc., Palo Alto

These recommendations will be voted upon at the June Business meeting. The Chapter wished to thank the nominating committee, Al Wiggins and Elizabeth King (and Mike Tarter who resigned from the committee when asked to stand for office.)

As is our custom, the President Elect, Florence Van Geem, Department of Economics and Statistics, Kaiser Foundation Health Plan will succeed Abe Silvers as President.

Al Wiggins, Professor of Statistics, University of California at Davis will continue his two year term as Council of Chapters Representative.
GENERAL APPLICATIONS PROGRAM

SPEAKER: Michael Tarter  
Professor of Biostatistics  
University of California, Berkeley

TOPIC: "IDENTIFICATION OF DISTRIBUTION SUB COMPONENTS: A PERSONAL COMPUTER APPROACH"

A method will be demonstrated which can be used to decompose a mixture of conditional or marginal distributions. The new approach does not depend upon normality or for that matter the assumption of any particular distributional model. Therefore, we have designed a computational system which can identify the composed component after the component has been separated.

The above procedures will be demonstrated and the theory which underlies both the decomposition and the model identification processes will be described.

DATE: May 17, 1989 (Wednesday)  
3:30 - 4:00 Coffee (475 Kerr Hall)  
4:00 - 5:00 Presentation (223 Olson Hall)

PLACE: University of California at Davis  
223 Olson Hall
EMPLOYMENT OPPORTUNITIES

1. **STATISTICIAN/EPIDEMIOLOGIST, FAILURE ANALYSIS ASSOCIATES**

**RESPONSIBILITIES:** Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performed by research assistants.

**REQUIREMENTS:** Ph.D in biostatistics or Public Health. Experience with analysis of NCHS and SEER databases. SAS or other statistical analysis packages is an advantage.

**COMPANY:** Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.

**SEND RESUME:** Personnel Manager, Failure Analysis Associates, P.O. Box 51470, Palo Alto, CA 94303. Reference AD# rr 4.22
Equal Opportunity Employer.

2. **STATISTICIAN/APPLIED MATHEMATICIAN, TIBURON SYSTEMS**

**RESPONSIBILITIES:** Development and implementation of mathematical algorithms, mathematical modeling, simulation, and algorithm evaluation.

**REQUIREMENTS:** Ph.D or Masters in Statistics or Applied Mathematics with strong statistical background. Experience in solving applied problems in the field is desirable. U.S. citizenship is required.

**COMPANY:** Tiburon Systems is a government contractor specializing in the areas of communications, command, control and intelligence.

**SEND RESUME:** Personnel Manager, Tiburon Systems, Inc., 2085 Hamilton Avenue, San Jose, CA 95125.

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Anna Bagniewska
Syntex Labs
34012 Hillview Avenue L-2500
Palo Alto, CA 94304
BIOSTATISTICS PROGRAM

SPEAKER: Kathleen Lamborn
Northern California Cancer Center
Vice President American Statistical Association

TOPIC: "SURVIVAL ANALYSIS OF BRAIN TUMOR DATA"

DATE: May 17, 1989 (Wednesday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: California State University at Hayward
North Science 215

DIRECTIONS: Parking is available in the coin lot ($.50). There is a shuttle bus from the Hayward BART which runs approximately every 20 minutes.

FUTURE EVENTS:

June 14 (Wednesday) ANNUAL BUSINESS MEETING and election of officers, preceded by a talk by Michael Orkin (Cal State, Hayward). Syntex, Palo Alto.

APPLICANT:

POSITION DESIRED: Mathematical Statistician

EXPERIENCE: Ten years (last four as a manager) at the U.S. Census Bureau. Experience in survey design, estimation procedures, technical report writing, oral presentations, methods for data collection, processing, and statistical analysis. Familiar with FORTRAN programming and statistical packages (SPSS, Minitab, SAS and BMDP). Versed in Deming's management philosophy.


CONTACT: Robert Edson (703) 971-0245 after 3pm (Pacific)
Mailed 4/27/89

DR. ROSE M. RAY 07/87
921 REGAL ROAD
BERKELEY, CA 94708
JOINT GENERAL APPLICATIONS AND BIOSTATISTICS PROGRAM  
(In conjunction with the Society for Risk Analysis)  

SPEAKER: Alice S. Whittemore  
Professor of Epidemiology and Biostatistics  
Stanford University  

TOPIC: "NEW DIRECTIONS IN CANCER RISK ASSESSMENT"  

DATE: April 27, 1989 (Thursday)  
  6:00 - 6:30 Cocktails (Cash Bar in the Gold Lounge)  
  6:30 - 7:45 Dinner  
  7:45 Presentation  

PLACE: Stanford University Faculty Club  
  Lagunita Drive on the Stanford Campus  

Two entrees will be offered: Chicken Kiev($18.25) and Seafood Brochette($20.25) including tax and gratuity.  

RESERVATIONS: Kelvin Lee, (415) 852-3253 by APRIL 19 with your choice of entrees. To guarantee your reservation make out your check to "ASA, SF Chapter" and mail it to Kelvin Lee at 515 Tiller Lane, Redwood City  
94065. Chapter members unable to join us for dinner are welcome to attend the talk, but please let Kelvin know that you are coming. The same number can be used for cancellations, as the chapter is responsible for the cost of the dinner for no shows.  

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FUTURE EVENTS:  

May 31 (Wednesday) BIOSTATISTICS PROGRAM: Kathleen Lamborn (Northern California Cancer Center) will speak at Cal State Hayward, on Survival Analysis of Brain Tumor Data.  

Mid June ANNUAL BUSINESS MEETING and election of officers, preceded by a talk by Michael Orkin (Cal State, Hayward). Time and place to be announced.  

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APPLICANT:

POSITION DESIRED: Mathematical Statistician

EXPERIENCE: Ten years (last four as a manager) at the U.S. Census Bureau. Experience in survey design, estimation procedures, technical report writing, oral presentations, methods for data collection, processing, and statistical analysis. Familiar with FORTRAN programming and statistical packages (SPSS, Minitab, SAS and BMDP). Versed in Deming’s management philosophy.


CONTACT: Robert Edson (703) 971-0245 after 3pm (Pacific)

EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN, FAILURE ANALYSIS ASSOCIATES

RESPONSIBILITIES: Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performed by research assistants.

REQUIREMENTS: M.A. or Ph.D in biostatistics or Public Health. Experience with analysis of NCHS and SEER databases. SAS or other statistical analysis packages is an advantage.

COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.

SEND RESUME: Personnel Manager, Failure Analysis Associates, P.O. Box 51470, Palo Alto, CA 94303. Reference AD# jp 4.2.

Equal Opportunity Employer.

CHAPTER DUES: Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $6 to:

Anna Bagniewska
Syntex Labs
34012 Hillview Avenue L-2500
Palo Alto, CA 94304
Retain the (415) 852-3253 for further information.

Health Sciences West: The room is on the third floor. Contact through the Medical Sciences Building and down the corridor into enter on Park Avenue. From the parking lot cross Park Avenue, walk.

DIRECTIONS: Public Parking is available at the McAllister Union Lot.

UC San Francisco (on Park Avenue)
Room S02, Health Sciences West
Presentation
Place: 4:00 - 5:00
Coffee
Time: 3:30 - 4:00
Date: March 29, 1983 (Wednesday)

This meeting is held in conjunction with the USCF Biostatistics and

Thinking.

extrapolate results to humans from animal data based upon current
dose-response trend analysis is provided and the capabilities to
some

extrapolation for the IAR PC and obtains computer-based maximum likelihood

software.

developed collaboratively with R. Crammond. The software, the software,

Assessment will present the statistical estimation issues of risk

assessment that is needed with software. The software, the software.

Assessment has become a basis for setting environmental

RISK ASSESSMENT AND EXPOSURE ASSESSMENT ESTIMATION

‘USER FRIENDLY’ COMPUTER SOFTWARE TO PERFORM QUANTITATIVE MODEL

and time to tumor risk assessment estimation.

TOPIC: ‘USER FRIENDLY’ COMPUTER SOFTWARE TO PERFORM QUANTITATIVE MODEL

AUDIO/VIDEO PRODUCTION, BIOSATISTICS AND EPIDEMIOLOGY, UCSP

President, P. F. Area Chapter of ASA

Speaker: Dr. Abraham Silverappa

JOINT GENERAL APPLICATIONS AND BIOSTATISTICS

SAN FRANCISCO BAY AREA CHAPTER
American Statistical Association
American Statistical Association
SAN FRANCISCO BAY AREA CHAPTER

CALENDAR

FEBRUARY 23, 1989, THURSDAY Joint General Applications and Biostatistical Program

JOINT GENERAL APPLICATIONS AND BIOSTATISTICAL PROGRAM

SPEAKER: Robert H. Somers
Research Social Scientist
Pacific Bell

TOPIC: "COMPONENTS OF PARTIAL RANK CORRELATION"

Adding an extension of the usual vector or outer product of vector analysis to least squares algebra permits a) the partial variance and covariance to be expressed in terms of pairwise differences and b) multiple regression to be interpreted as a summary of simple linear analyses of small subsets of p pairs of observations over p independent variables. Employing these results and working with only the signs of the pairwise differences, one may define an ordinal partial regression concept, closely related to Kendall's partial tau, suitable for assessing relative importance, in a regression sense, among a small number of rank orderings.

Applying these concepts to customer satisfaction data distributed over a four variable ordered cross-tabulation, conclusions about relative importance remained intact despite suppression of all but the ordinal measurements. The ordinal partial is best interpreted in terms of its components, one of which is a measure of ordinal pattern matching between categories of the controlled variables. Another summarizes data within those conditional distributions, no combining of categories is required in this analysis.

DATE: February 23, 1989 (Thursday)
1:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Stanford Medical Center
Room M106

Professor Bill Brown has kindly offered to be the local host.
Refreshment will be served at his home following the presentation.
Directions will be provided at the meeting.

Although there will be no charge for this meeting, the chapter would like to get an idea of the attendance. Please notify Dean Fearn (415) 537-3439 or Kelvin Lee (415) 852-3253.

COUNSEL OF CHAPTERS REP.
Alan D. Wiggins
(415) 752-7123

PRESIDENT
Abraham Silver
(415) 885-2851

PRESIDENT ELECT
Florence Van Oostrum
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(415) 655-299

SECRETARY
Rose Ray
(415) 858-8400

ABOC TASK ORG
Fred Muthers
(401) 765-9219

ASOC STATISTICAL TASK GROUP
Curtis Englehardt
(401) 765-9295
Professor Elizabeth L. Scott, a long time member of the faculty of the Department of Statistics at Berkeley, died unexpectedly on December 20, 1988.

Elizabeth Scott’s academic career started at Berkeley where she received a BA in 1939 and a PhD in 1949. Both degrees were in Astronomy. During World War II she worked in the Statistical Laboratory that Jerzy Neyman had just started at Berkeley. This was real war work, mostly concerned with improving precision of air bombing. By 1948, when she published her first statistical paper, she had already co-authored 13 papers in Astronomy. Jerzy Neyman had led her to Statistics, she led him to Astronomy; the two of them wrote a long series of papers on the spatial distribution of galaxies.

In 1951 Elizabeth Scott was appointed Assistant Professor of Mathematics at U.C. Berkeley, becoming Associate Professor of Statistics in 1957 and Professor of Statistics in 1962.

Elizabeth Scott worked on a variety of statistical studies. One such study, joint with Neyman, was of weather modification (cloud seeding). That started in 1952. She was still working on a booklet on the subject at the time of her hospitalization. Also with Neyman, she published a series of papers on stochastic models for carcinogenesis. And, as part of a study on ozone depletion, Betty (as she was usually called) became an expert on skin cancer. She visited the U.C. San Francisco melanoma clinic every week.

In the early seventies Betty worked to promote the status of women in academia. She published several papers in which she compared salaries of faculty women with those of faculty men and found a substantial difference at equal qualifications nationally and locally. She was a role model for many aspiring young female scientists and took an active interest in their careers even after her retirement this past spring.

Betty was notable for her boundless energy. She was on several committees of the National Academy of Sciences and travelled often to Washington, D.C. She was also busy locally, taking care of complaints about Evans Hall (that is our building; Betty had a prominent role in its design and its maintenance. We used to joke that she owned it.)

Betty was a superb teacher who cared very deeply about her students. She single-handedly ran our Masters program for about 15 years, and in the last 7 years alone, she supervised the theses of 11 PhD students. She will be remembered as feisty by deans and warm and generous by the students and staff of the department. It was a personal commitment on her part to provide cakes for students and faculty working in Evans on Saturday afternoons.

Elizabeth Scott was internationally known. She had been president of the Institute of Mathematical Statistics, vice-president of the American Statistical Association and president of the Bernoulli Society. (She was a main force behind the organization of the First International meeting of the Bernoulli Society in Tashkent). She received many honors, including election as Honorary Fellow of the Royal Statistical Society. But to us, she will always be the one who cared deeply about the Department and the Laboratory.

The University of California Statistics Department will hold a memorial service for Betty on Friday, February 17 at the Alumni House (Berkeley Campus) at 3:30 p.m.

Donations can be made to the Elizabeth L. Scott Memorial Fund c/o Department of Statistics, University of California, Berkeley, CA 94720. It is the policy of the University of California, Berkeley and the University of California Berkeley Foundation that a portion of the gifts and the interest therefrom (2%) may be used to defray the costs of the administering the fund.
The Southern California Chapter of the American Statistical Association announces the Eighth Annual WORKSHOP IN APPLIED STATISTICS On Friday, May 12, 1989, 8:30-4:30 at the Annenberg School of Communication University of Southern California

HANDLING MISSING DATA: TECHNIQUES AND APPLICATIONS presented by
Professor Donald B. Rubin Professor Roderick J. Little
Department of Statistics Department of Biomathematics
Harvard University University of California, L.A.

ABSTRACT: Missing data is a pervasive problem in statistics. This workshop will a) survey ad-hoc historical approaches to missing data adjustment, b) describe principled approaches to the problem based on modeling the data and the missing-data mechanism, and c) discuss real applications, including missing data problems encountered by the workshop participants.

REGISTRATION INFORMATION: The registration fee is $60 ($30 for full time students). Admission to the program and exhibits area, one set of handouts, refreshments, and lunch are provided. The fee does not cover the cost of parking. Lunch cannot be guaranteed for registrations postmarked after 4/30.

REFUND INFORMATION: Refund requests should be addressed to Nancy Berman (address below). A $10 service charge will be assessed for request received before April 30. Refund requests received after that date will not be honored.

FURTHER INFORMATION: Contact either
Nancy Berman
Medical Center RB1-220
1124 West Carson
Torrance, CA 90509
(213) 212 1874 (213) 476 2488

or

Robert Madison
Department of Health Sciences (HLTH)
California State University
Northridge, CA 91330
(818) 885 4645 (213) 457 4627

REGISTRATION FORM: 8TH Annual Workshop in Statistics on May 12, 1989

Name: ___________________________ Telephone ( ) ____________________

Professional Affiliations:______________________________________________

Mailing Address: _____________________________________________________

Registration Type: Regular ($60) Student ($30)

Vegetarian Lunch ( ) Receipt for Registration Fee Requested ( )

Make your check or money order payable to "Workshop in Applied Statistics". Return it and this form to: Professor Roberta E. Madison, Department of Health Sciences (HLTH), California State University, Northridge, CA 91330
Chapter Order Form for ASA150 Items

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Please enclose check payable to American Statistical Association, for amount of total order with this form and send to:

Mr. Todd Palmquist  
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ATTN: ASA150 - Council of Chapters

You will be billed separately for shipping!

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City ___________________ State _______ Zip _________
EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN, Systems Applications Inc., San Rafael

RESPONSIBILITIES: Analysis of air and water pollution data. Analyses require originality and ingenuity; thus imaginative approaches to probing and presenting data are sought. Conscientiousness concerning the accuracy, appropriateness, and timeliness of results is essential.

REQUIREMENTS: Ph.D in statistics. Oral and written communication skills necessary to present results to clients. Some statistical consulting experience is preferred, especially in the physical sciences. Ability to use statistical packages (SAS preferred) is required.

COMPANY: Systems Applications, Inc. is an environmental consulting firm in Marin county, providing consulting services related to air and water pollution to the U.S. EPA and other governmental and industrial organizations.

SEND RESUME: Job #4-P-098A, Systems Applications Inc. 101 Lucas Valley Road, San Rafael CA 94903. Include salary requirements. AA/EEO

2. STATISTICIAN, ICI Americas Inc., Richmond

RESPONSIBILITIES: Consult with and assist chemists with experimental design, statistical data analysis and in interpreting results.

REQUIREMENTS: Advanced degree in statistics. Statistical consulting experience desirable. Knowledge of experimental design (preferably industrial screening designs, fractional factorials, response surfaces, mixture designs) AOV regression. SAS experience. Experience with other statistical methods or design/analysis of software is a plus. Excellent written and verbal communication skills.

COMPANY: ICI Americas, Inc. is a diversified chemical/pharmaceutical company and a world leader in the agricultural chemicals business. This position is in the Agricultural Products Western Research Center in Richmond, CA.

SEND RESUME: Ms. K. D. MacLaren, ICI Americas, Inc. 1200 South 47th Street, Box 4023, Richmond CA 94804-0023. Please include salary history. AA/EEO

3. RESEARCH ANALYST, CHEVRON CORP. MEDICAL STAFF, S.F.

RESPONSIBILITIES: Management and analysis of data from occupational cohort studies, ad hoc epidemiological investigations, health evaluation, and Chevron's morbidity and mortality surveillance systems.

REQUIREMENTS: Masters degree in Public Health or related field and experience in data analysis are required. Ability to use SAS and database management software are desirable.

SEND RESUME: Dr. Kenneth Satin, Medical Department, Room 1359, Chevron Corporation, 225 Rush Street, San Francisco CA 94104. above.
NOTICES:

AMERICAN SOCIETY FOR QUALITY CONTROL – CALL FOR PAPERS.

The American Society for Quality Control (ASQC) Region 7 Statistics division is currently planning a "Statistical Applications in Quality Assurance and Reliability" conference one June 2 and 3, 1989. This conference will be sponsored by the Southern California ASA and the University of California at Riverside statistics department.

Papers should illustrate the use of statistics in diverse applications and disciplines such as quality of design and productivity, process control, quality audit and reliability and the impact of these disciplines on quality costs such as scrap and rework rates and Total quality Management (TQM) and planning.

Submit title, abstract and a short biography by March 1, 1989 to Rodney Green, Program Chairman, c/o Kennedy Company, Division of Shugart, 1600 Shamrock Ave, Monrovia CA 91016. (818)357-8831 x513.

ASA SESQUICENTENNIAL SOUVENIRS - Order Now.

Three items are available:

KOOZIES (Insulated beverage can holders) Light blue with a dark blue ASA150 seal. $1.40 plus shipping.

PENS (by Schaefer, large barrel, ball point) dark blue with silver ASA150 imprint. $1.50 plus shipping.

MUGS (Ironstone), tentatively grey with rose imprint of ASA150 seal. $4.00 plus shipping.

Use the attached order form.
American Statistical Association
SAN FRANCISCO BAY AREA CHAPTER

CALENDAR OF TALKS

JANUARY 11, 1989  Wednesday  David C Trindale, Advanced Micro Devices
JANUARY 17, 1989  Tuesday  J. Richard Landis, Penn. State U.
JANUARY 19, 1989  Thursday  Mark DiCamillo, Field Research

BIOSTATISTICS PROGRAM

SPEAKER:  J. Richard Landis
Center for Biometrics and Epidemiology, Penn. State U.

Dr. Landis was on the faculty of the Biostatistics Department at the
University of Michigan(Ann Arbor) for 13 years before moving to his present
position this autumn. He has done research and published extensively in the
area of categorical data analysis.

TOPIC: "SOME STATISTICAL ISSUES IN THE BLOOD PRESSURE/BLOOD LEAD CONTROVERSY"

DATE:  January 17, 1989 (Tuesday)
6:00  Cocktails (Cash Bar)
6:30  Dinner
7:30  Presentation

PLACE:  Sofia Restaurant
2121 El Camino Real, San Mateo
Sofia is at the corner of El Camino and 21st Street, two blocks South
of highway 92.

PRICE:  $13.00 for dinner (Soup/Salad, Entree, Dessert, Coffee)

RESERVATIONS:  Call Kelvin Lee (415) 852-3253 by January 12 with your choice of
entree (veal parmigiana, chicken cacciatore, or fish du jour). Chapter members
should feel no obligation to join us for dinner; if there is a schedule
conflict, feel free to come at 7:30 just for the talk, but let Kelvin know. Same
telephone number can be used for reservation cancellations.

GENERAL APPLICATION PROGRAM

SPEAKER:  Mark Di Camillo
Managing Director, Field Institute

TOPIC:  "PRE ELECTION POLL, METHODOLOGY OF TELEPHONE SURVEYS"

DATE:  January 19, 1989 (Thursday)
11:30  Coffee
12:00  Lunch and Presentation

PLACE:  PLACE:  Bank of America
180 Montgomery, 8th floor Conference Room C
San Francisco

Arlene Frazier will take reservations for a box lunch from the
local delicatessen. Cost $5.50. Phone (415) 922-8422.
APPLICANT:

POSITION DESIRED: Mathematical Statistician

EXPERIENCE: Ten years (last four as a manager) at the U.S. Census Bureau. Experience in survey design, estimation procedures, technical report writing, oral presentations, methods for data collection, processing, and statistical analysis. Familiar with FORTRAN programming and statistical packages (SPSS, Minitab, SAS and BMDP). Versed in Deming's management philosophy.


CONTACT: Robert Edson (703) 971-0245 after 3pm (Pacific)

EMPLOYMENT OPPORTUNITIES

STATISTICIAN, FAILURE ANALYSIS ASSOCIATES

RESPONSIBILITIES: Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performs by research assistants.

REQUIREMENTS: M.A. or Ph.D in statistics or related field. Experience with analysis of large volume databases. SAS or other statistical analysis packages is essential. Engineering background is an advantage.

COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.


CHAPTER NEWS: Three chapter members were elected ASA Fellows in 1986.

JULIET POPPER SCHAFFER, Senior Lecturer, Department of Statistics, U.C. Berkeley; for significant contributions to the theory and methods of multiple comparisons, for excellence in teaching and consulting, for dedicated editing of applied statistics journals, and for service to the ASA.

ROBERT H. SHUMWAY, Professor, Division of Statistics, U.C. Davis; for significant contributions to the theory of time series and signal detection; for outstanding statistical applications in oil and water sciences, seismology, and health sciences; and for consulting and teaching skills.

ABRAHAM SILVERS, Senior Project Manager, Electric Power Research Institute, and Adjunct Professor of Epidemiology (Biostatistics), U.C. San Francisco; for major contributions to risk assessment and compartmental analyses, for consultative expertise in clinical trials and in heart and cancer research, and for outstanding leadership as a statistical administrator.
Analysis of Reliability Data with Failures from a Defective Subpopulation

David C. Trindade, Ph.D.
Director, Applied Statistics
Advanced Micro Devices

Most reliability analysis is based on the assumption that all units under stress will eventually fail for a specific mechanism. However, in practical applications, we often encounter defective subpopulations: a fraction of the units under stress contain flaws that lead to failure. Once the faulty units in the defective subpopulation fail, the surviving components experience no further fails for that mechanism. In this talk, Dr. Trindade will discuss appropriate procedures to detect and analyze such lifetest data. He will also describe the use of burn-in to screen out even those mechanisms classified as having an increasing failure rate (wearout). An actual case history involving mobile ionic contamination integrated circuits will be presented.

Wednesday, 7:00 P.M.
January 11, 1989
Intel Corporation Auditorium (Building SC9)
2250 Mission College Blvd, Santa Clara

From Highway 101 in Santa Clara, take Montague Expressway east to the first stop light. Turn left onto Mission College Boulevard. At the first stop light, turn left into the Intel parking lot.

For further information call Curt Engelhard at (408) 765-9325
Some Interesting Statistics:

Ninety-two point four percent of juvenile delinquents have eaten tomatoes.

Eighty-seven point one percent of the adult criminals in penitentiaries throughout the United States have eaten tomatoes.

Informers reliably confirm that of all known American Communists, ninety-two point three percent have eaten tomatoes.

Eighty-four percent of all people killed in automobile accidents during the year 1980 had eaten tomatoes.

Those who object to singling out specific groups for statistical proofs require measurements within a total. Of those people born before the year 1850, regardless of race, color, creed or caste, and known to have eaten tomatoes, there has been one hundred percent mortality!

In spite of their dread addiction, a few tomato eaters born between 1850 to 1900 still manage to survive, but the clinical picture is poor—their bones are brittle, their movements feeble, their skin seams and wrinkled, their eyesight failing, hair falling, and frequently they have lost all their teeth.

Those born between 1900 and 1925 number somewhat more survivors, but the over signs of the addiction's dread effects differ not in kind but only in degree of deterioration. Prognostication is not hopeful.

Don't let this happen to you!

Exhaustive experiments show that when tomatoes are withheld from an addict, invariably his cravings will cause him to turn to substitutes—such as oranges, or steak and potatoes. If both tomatoes and all substitutes are persistently withheld, death invariably results within a short time.

The skeptic of apocryphal statistics, or the stubborn nonconformist who will not accept the clearly proved conclusions of others, may conduct his own experiment.

Obtain two dozen tomatoes (they may actually be purchased within a block of some high schools, or discovered growing in a respected neighbor's back yard)—crush them to a pulp in exactly the state they would have if introduced into the stomach, pour the vile juice and pulp into a bowl, and place a goldfish therein. Within minutes the goldfish will be dead!

Those who argue that what affects a goldfish might not apply to a human being may, at their own choice, wish to conduct a direct experiment by fully immersing a live human head into the mixture for a full five minutes. The results are almost always conclusive.

WARNING: It has been determined that statistics, if left unqualified or misdirected, can be hazardous to your advertising message. Consult your local ad agency. If problem persists, seek a second opinion.

A message in the interest of accuracy in advertising from:

THOMAS I. RAHM
Advertising and Public Relations.

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THE DREAD TOMATO
The annual meeting of the American Association for the Advancement of Science will be held concurrently with the joint annual meeting of the American Association of Physics Teachers and the American Physical Society.

The American Statistical Association is an affiliated society of the AAAS and, together with the AAAS Section on Statistics, is sponsoring or cosponsoring more than a dozen symposia and technical sessions of interest to statisticians.

PRELIMINARY PROGRAM INFORMATION (Title, Organizer(s), Speakers, Day/time)


Modelling the AIDS Epidemic. Agnes M. Herzberg, Imperial College & P. A. Lachenbruch, UCLA - L. Billard, R. Elashoff, M. Gail, S. W. Lagakos. Wed/pm


Quality and its Impact on Competitiveness. H. James Harrington, ASQC & Walter L. Hurd, International Academy for Quality. Tue/pm

Values, Policy Controversies and the 1990 Census (2 sessions). Patrick Burns, Federation for American Immigration Reform & Rachelle Hollander, NSF. Tue/am, pm


Cross-National Measurements of Public Understanding of Science and Technology. Jon D. Miller, Northern Illinois Univ. Tue/pm


INFORMATION - Registration information is available from

AAAS Meetings Office
1333 H Street NW
Washington, DC 20005

ASA Committee of Representatives to AAAS
Nancy Flournoy, chair
R. Clifton Bailey, vice-chair

AAAS Section on Statistics
Judith M. Tanur, chair
Joan R. Rosenblatt, secretary
CHAPTER DUES: Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $6 to:

Anna Bagniewska  
Syntex Labs  
3401 Hillview Avenue L-2500  
Palo Alto, CA 94304

AAAS ANNUAL MEETING JAN 15-20 in San Francisco

The AAAS annual meeting will be January 15-20, 1989 at the San Francisco Hilton. There are several sessions of special interest to statisticians. A preliminary program and registration information is enclosed in this month's newsletter.

READ ABOUT THE KILLER TOMATOES

Arlene Frazier forwards the enclosed statistics on tomatoes. Hope you enjoy this article.
CALENDAR OF FUTURE TALKS

General Applications Programs:

DECEMBER 1, 1988    THURSDAY    Prof. Robert Shumway, UC Davis
JANUARY 19, 1989    THURSDAY    Mark DiCamillo, Field Research

JOINT GENERAL APPLICATIONS AND BIOSTATISTICS

SPEAKER: Professor Robert Shumway
UC Davis

TOPIC: "ESTIMATING MEANS IN CENSORED SAMPLES UNDER TRANSFORMATION"

Reporting procedures for potentially toxic pollutants are complicated by the fact that concentrations are measured using small samples that include a number of observations lying below some detection limit. Furthermore there are often a small number of high concentrations observed in combination with a substantial number of low concentrations. The above configuration produces small non-normally distributed samples with censoring.

This talk proposes a procedure for computing improved estimators for the means of censored samples that can be transformed to normality. The method estimates the optimal power transformation in the Box-Cox family by searching the censored data likelihood. Maximum likelihood estimators for the mean of the transformed scale are calculated via the EM algorithm. Maximum likelihood estimators in the original scale are computed as functions of the estimated mean and variance in the transformed population. Confidence intervals are computed using the delta method and the nonparametric percentile and bias-corrected percentile versions of Efron's bootstrap.

A simulation study over sampling configurations expected with environmental data indicates that the delta method combined with a reliable value for the power transformation produces intervals with better coverage properties than are yielded by the bootstrap.

DATE: December 1, 1988 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Room 400
Golden Gate University
536 Mission Street
San Francisco, CA
APPLICANT:

POSITION DESIRED: Mathematical Statistician

EXPERIENCE: Ten years (last four as a manager) at the U.S. Census Bureau. Experience in survey design, estimation procedures, technical report writing, oral presentations, methods for data collection, processing, and statistical analysis. Familiar with FORTRAN programming and statistical packages (SPSS, Minitab, SAS and BMDP). Versed in Deming's management philosophy.


CONTACT: Robert Edson (703) 971-0245 after 3pm (Pacific)

EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN, FAILURE ANALYSIS ASSOCIATES

RESPONSIBILITIES: Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performed by research assistants.

REQUIREMENTS: M.A. or Ph.D in statistics or related field. Experience with analysis of large volume databases. SAS or other statistical analysis packages is essential. Engineering background is an advantage.

COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.


2. SR STATISTICIAN, Systems Applications Inc.

RESPONSIBILITIES: Perform exploratory and confirmatory data analyses in support of the U.S. Environmental protection Agency. Analyses require originality and ingenuity; there is much opportunity for professional growth. May participate in marketing activities.

REQUIREMENTS: PhD in statistics or equivalent with at least one year of statistical consulting experience. Ability to program in FORTRAN, SAS, Minitab, BMDP, or other statistical packages. Must have be able to present results clearly to clients.

SEND RESUME: JOB #4-P 89, SYstems Applications Inc., 101 Lucas Valley Road, San Rafael, CA 94903. Please indicate salary expectations and referral source.
EMPLOYMENT OPPORTUNITIES (CONTINUED):

3. **STATISTICIAN**, UCSF, Dept of Epidemiology & Internal Health

**RESPONSIBILITIES:** Conduct statistical analysis national health surveys using multivariate and weighted analyses with prewritten statistical programs. Adapt or modify computer programs for use in analyzing survey data. Create, document and maintain computer data files. Advise senior staff on data processing options.

**REQUIREMENTS:** MA or equivalent in Biostatistics. Strong SAS or SPSSX. Experience with survey research and complex sample survey design desirable. Interest and capability to conduct analyses of a large national data set employing a complex sampling design is required.

**SEND RESUME:** John Neuhaus or Maradee Davis, Dept. of Epidemiology and Intl. Health, UCSF, San Francisco, CA 94143-0560. Phone (415) 476-2528.

4. **BIOANALYST**, Syntex, Palo Alto

**RESPONSIBILITIES:** Analyze data from clinical trials. Understand and interpret statistical analyses, generate summary tables and graphs for presentation.

**REQUIREMENTS:** MA in Statistics or Biostatistics. Three years experience in data analysis and computer programming. SAS programming and strong microcomputer skills.

**SEND RESUME:** Carol A. Francisco, 3401 Hillview Avenue, Palo Alto, CA 94304. Phone (415) 354-7141.

**CHAPTER NEWS:** Barbara Kamm has been elected District Governor, District 7 for the ASA Council of Chapters. Barbara previously served as the SF Bay chapter representative to the Council of Chapters; she will serve a two year term, 1989-1990, as Council Governor.

**CHAPTER DUES:** Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $6 to:

Anna Bogniewska  
Syntex Labs  
3402 Hillview Avenue A4-200  
Palo Alto, CA 94303
ANNOUNCEMENTS:

Stanford Students Invite You to Lunch: Participate in STATS.

The students at the Statistics Department of Stanford University have a new program "Statisticians Together to Augment Training at Stanford" of STATS. The program consists of a series of informal luncheons with several students meeting a corporate statistician. The purpose of STATS is to supplement the theoretical training that the students receive with a practical sense of how statistics are used in the real world. We basically just want to know what it is that statisticians do for different corporations. We are looking for non-academic statisticians to take part in the program. You will be able to choose the time, date, location and number of students that you would like to meet.

CONTACT: Vance Berger, Director STATS, Dept. of Statistics, Sequoia Hall, Stanford, CA 94305. Phone (415) 723-2213. or vance@playfair.stanford.edu.
GENERAL APPLICATIONS PROGRAM

SPEAKER: Paul Tukey
BELLCOR

TOPIC: "MULTIVARIATE & DYNAMIC GRAPHICS FOR DATA ANALYSIS"

Dr. Tukey will be discussing computer programs which can
be used to dynamically display data in multiple
dimensions. Strategies for the use of these programs to
understand and describe complex multivariate data will be
given.

There will be a demonstration of this technology.

DATE: November 3, 1988 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: 1011 Evans Hall
University of California
Berkeley, California

Professor Mike Tarter has kindly offered to be the local host.
Refreshment will be served at his home following the
presentation. Directions will be provided at the meeting.
EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN, FAILURE ANALYSIS ASSOCIATES

RESPONSIBILITIES: Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performed by research assistants.

REQUIREMENTS: M.A. or Ph.D in statistics or related field. Experience with analysis of large volume databases. SAS or other statistical analysis packages is essential. Engineering background is an advantage.

COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.


2. ASSISTANT CHIEF, V.A. Med Center, Palo Alto (547-479-550, 663)

RESPONSIBILITIES: Assist in the training and supervision of a biostatistical and data processing staff. Plan and conduct final analysis of multi-center clinical trials.

REQUIREMENTS: Ph.D in statistics, biostatistics or related field; 3 years experience.

SEND Resume: Kenneth E. James, Ph.D., Chief, Cooperative Studies Program Coordinating Center (1511), V.A. Medical Center, 1801 Miranda Avenue, Palo Alto, CA 94304.

2. SR. BIOSTATISTICIAN, V.A. Med Center, Palo Alto (547-479-60, 663)

RESPONSIBILITIES: Consult with medical investigators in the design, conduct and analysis of multi-center clinical trials. Statistical/methodological research related to clinical trials.

REQUIREMENTS: Ph.D. in statistics, biostatistics or related field.

SEND Resumes: see 2. above.

NOTICES: SPEAKERS WANTED

Would you like to make a short presentation on any statistical topic? Would you like to suggest someone to give a presentation at a local meeting? Do you have information about visiting statisticians who could be contacted to give an invited talk?

CONTACT: Kelvin Tan, Vice President, Biostatistical Programs, in Palo Alto at (415) 552-3253, or Dwan Pears, Vice President, General Applications Programs in Hayward at (415) 537-3439.
CALENDAR

OCTOBER 20, 1988, THURSDAY Joint General Applications and Biostatistical Program

JOINT GENERAL APPLICATIONS AND BIOSTATISTICAL PROGRAM

SPEAKER: Peter A. Lachenbruch
Professor of Biostatistics
UCLA School of Public Health

TOPIC: "THE STATISTICIAN AS COMPUTER CENTER"

The parallels between operating a computer center and using one's own personal computer will be discussed. These include decisions on purchase and maintenance, stability of environment, dangers, and budgetary considerations. Various models of operation will be considered: the 'independent' operation, departmental support and institutional support models.

Sources of information include trade publications, professional publications, and colleagues. Each is valuable and each has its limitations.

Criteria for evaluating computer programs will be considered: needs, ease of use, procedures available, and input and output availability. Some commonly available programs will be assessed in this light.

DATE: October 20, 1988 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Schultz Auditorium
HRP Building Stanford University

Directions: From El Camino in Palo Alto, drive onto Palm Drive heading toward the university. At Campus Drive, turn right. The HRP building will be on your left between the museum and the multi-story parking structure in which free parking is available. Contact Kelvin Lee (415) 852-3253 for more detailed directions.

Professor Bill Brown has kindly offered to be the local host. Refreshment will be served at his home following the presentation. Directions will be provided at the meeting.

Although there will be no charge for this meeting, the chapter would like to get an idea of the attendance. Please notify Dean Fearn (415) 537-3439 or Kelvin Lee (415) 852-3253, by OCTOBER 18.
EMPLOYMENT OPPORTUNITIES

1. STATISTICIAN, FAILURE ANALYSIS ASSOCIATES

RESPONSIBILITIES: Use methods of statistical epidemiology in the analysis of large volumes of accident data. Coordinate and manage tasks performed by research assistants.

REQUIREMENTS: M.A. or Ph.D in statistics or related field. Experience with analysis of large volume databases. SAS or other statistical analysis packages is essential. Engineering background is an advantage.

COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.


2. ASSISTANT CHIEF, V.A. Med Center, Palo Alto (547.479-560.683)

RESPONSIBILITIES: Assist in the training and supervision of a biostatistical and data processing staff. Plan and conduct final analysis of multi-center clinical trials.

REQUIREMENTS: Ph.D in statistics, biostatistics or related field; 3 years experience.

SEND RESUME: Kenneth R. James, Ph.D., Chief, Cooperative Studies Program Coordinating Center (CPSC), V.A. Medical Center, 3801 Miranda Avenue, Palo Alto, CA 94304.

3. SR. BIOSTATISTICIAN, V.A. Med Center, Palo Alto (547.479-60.665)

RESPONSIBILITIES: Consult with medical investigators in the design, conduct and analysis of multi-center clinical trials. Statistical/methodological research related to clinical trials.

REQUIREMENTS: Ph.D. in statistics, biostatistics or related field.

SEND RESUME: see 2. above.

NOTICES: SPEAKERS WANTED

Would you like to make an hour long presentation on any statistical topic? Would you like to suggest someone to give a presentation at a local meeting? Do you have information about visiting statisticians who could be contacted to give an invited talk?

CONTACT: Kelvin Lee, Vice President, Biostatistical Programs, in Palo Alto at (415) 852-3253; or Dean Fearn, Vice President, General Applications Programs in Hayward at (415) 537-3439.
MORE EMPLOYMENT OPPORTUNITIES

1. CLINICAL TRIALS DATA COMPLIANCE ANALYST
   RESPONSIBILITIES: Create, perform, and report data quality monitoring procedures for clinical data management. Assist programming for clinical data management, including error detection and correction. Assist development and implementation of procedures to ensure data integrity.
   REQUIREMENTS: A BA/BS, clinical data management experience, and expertise with SAS, ORACLE, RS1, or equivalent are required.
   SEND RESUME: Employee Relations, Triton Biosciences Inc. Box CA, 1501 Harbor Bay Parkway, Alameda, CA 94501.

2. CLINICAL TRIALS DATA PROCESSING SUPERVISOR
   RESPONSIBILITIES: Supervise computerized data management for clinical trials of pharmaceutical products and assist ongoing development of a growing department.
   REQUIREMENTS: A BA/BS, experience with research data management, experience with database software or programming experience, and supervisory ability are required.
   SEND RESUME: Employee Relations, Triton Biosciences Inc. Box DPS, 1501 Harbor Bay Parkway, Alameda, CA 94501.

3. SENIOR BIOSTATISTICIAN
   RESPONSIBILITIES: Assist study design, direct analysis, and write statistical reports for individual clinical trials and for FDA submission combining results from multiple studies.
   REQUIREMENTS: A Ph.D. in Biostatistics or Statistics, strong communication and leadership skills, experience with clinical trials, survival analysis, and repeated measures analysis, and experience with submission of PLAs or NDAs are required.
   SEND RESUME: Employee Relations, Triton Biosciences Inc. Box BT, 1501 Harbor Bay Parkway, Alameda, CA 94501.

4. DATA ANALYSIS ASSISTANT--SUMMER INTERNS
   RESPONSIBILITIES: Analyze clinical data and assist in developing graphics for display of data for reports to Food and Drug Administration.
   REQUIREMENTS: Statistics major or minor. Should be familiar with statistics software such as SAS, SYSTAT, STATVIEW. Familiarity with spreadsheets and/or computer coursework a plus.
   TIME COMMITMENT: Full-time during the summer.
   SALARY: $1050-$1400 per month.
   SEND TO: Manager, Human Resources, Becton Dickinson Immunocytometry Systems, 2375 Garcia Avenue, Mountain View, CA 94039: your resume, cover letter on your strengths and interests in this position, most recent transcripts.
June 7, 1988

COME TO OUR ANNUAL BUSINESS MEETING!

JUNE 1987 CALENDAR

JUNE 30  THURSDAY  A NEW SURVIVAL DISTRIBUTION
(Joint General Applications and
Biostatistics Program)
Annual Business Meeting

JOINT GENERAL APPLICATIONS AND BIOSTATISTICAL PROGRAMS

SPEAKER:  Chin Long Chiang, Ph.D.
Professor of Biostatistics
University of California (Berkeley)

TOPIC:  A NEW SURVIVAL DISTRIBUTION WITH APPLICATION TO CANCER RISK ANALYSIS.

A stochastic model of survival distribution will be presented where the mortality intensity is a function of the accumulated effect of an individual's continuous exposure to toxic material in the environment (absorbing coefficient) and his biological reaction to the toxin absorbed (discharging coefficient). Formulas for the density function, the distribution function, and the expectation of lifetime will be presented. A method of estimation will be given. Special cases where there is a change in the exposure level, or where exposure is discontinued, or where exposure is discrete in time, will be discussed.

Results of this model applied to a real experiment will be given.

DATE:  THURSDAY June 30, 1988
3:30-4:00  Refreshments
4:00-5:00  Presentation
5:00-  Annual Business Meeting

PRICE:  Free of charge

PLACE:  Golden Gate University, Room 500
536 Mission Street, San Francisco
(Between 1st and 2nd Streets/close to Embarcadero BART)

RESERVATIONS:  Call Loren Schoof (415) 823-9020 by June 28.

ANNUAL BUSINESS MEETING

The Annual Business Meeting will be held immediately after the joint meeting of the General Applications and Biostatistical Programs. The agenda of the meeting will include the election of officers for 1988-1989, the President's farewell remarks, the Treasurer's reports, and any other business which needs to be addressed. This will be the last meeting until September.
According to the Constitution of the S. F. Bay Area Chapter of the ASA, this year's PRESIDENT-ELECT, Abraham Silvers, Electric Power Research Institute, automatically succeeds to the office of PRESIDENT for 1988-89. The 1988 Chapter Nominations Committee comprised of Nick Jewell, Andrea Lash, and Elizabeth King, Chairman, is pleased to recommend the following slate of officers for the term, July 1, 1988 to June 30, 1989 plus the Council of Chapters Representative for the two-year term, 1989 through 1990.

PRESIDENT-ELECT: Florence van Geem  
Kaiser Foundation Health Plan

VICE PRESIDENT, GENERAL APPLICATIONS PROGRAMS: Dean Fearn  
California State University, Hayward

VICE PRESIDENT, BIOSTATISTICAL PROGRAMS: Kelvin K. Lee  
Veterans Administration

SECRETARY: Rose Ray  
Failure Analysis Associates

TREASURER: Anna Bagniewska  
Syntex Labs

COUNCIL of CHAPTERS REPRESENTATIVE (1989-1990): Alvin D. Wiggins  
University of California, Davis

CONDOLENCES

Joe Doyle, who was a very active member of the SF Bay Area Chapter of ASA and the National ASA, passed away April 9, 1988. Joe was Chapter president in 1979 and attended meetings regularly. We will miss Joe and we will remember his many contributions to ASA. We send our condolences to his family.
EMPLOYMENT OPPORTUNITIES

STATISTICIAN, LOCKHEED MISSILES & SPACE CO.

RESPONSIBILITIES: Determine the specific approach, including the mathematical/statistical methodology for the solution of a complex reliability/management decision problem and perform the numerical analyses, which will contribute to the solution. Record and evaluate such analyses in technical reports, which may be the basis for management decisions. Anticipate future needs and work out possible analytical methods of solution of these problems.

REQUIREMENTS: M.S. Degree in Statistics or Biostatistics
U.S. Citizenship

SEND RESUME: J. M. Mirra
Lockheed Missiles & Space Co.
Sunnyvale, CA
(408) 742-8412
or
W. E. Sherwood
(408) 742-1844

IMPORTANT NOTICE

The date you last paid Chapter dues has been shown on the mailing label following your name. Please take a moment to check it. If you see a date more than a year ago and you have not made a recent payment to the National ASA, please use the form below to send your membership dues to our treasurer, Anna Bagniewska. We would welcome you as a Chapter member with payment of local dues. If you pay Chapter dues to the National ASA, the date shown has been provided by them. Any question contact Anna at (415) 855-5289.

Anna Bagniewska, Biostatistician, Syntex Labs, 3401 Hillview Avenue L2500, Palo Alto, CA 94304

Please extend my local Chapter membership another 12 months. I have enclosed a check for $6 Regular or $1/Student Membership payable to ASA-S.F. Chapter.

NAME_________________________________________________________________

ADDRESS_________________________________________________________________

________________________________________________________________________
Happy New Year!

JANUARY MEETINGS

January 20:  Wednesday  Application of SMIARK Processes to a Human Factors Problem
January 28:  Thursday  Statistical Methods in Parapsychology

GENERAL APPLICATIONS PROGRAM

SPEAKER: Fred Chang, Pacific Bell

TOPIC: APPLICATION OF SEMI-MARKOV PROCESSES TO A HUMAN FACTORS PROBLEM

A mild weakening of the Markov assumptions opens up a new set of possibilities. This talk explores one application of a semi-markov model to new telephone services.

DATE: January 20, 1988 (WEDNESDAY)
3:30-4:00 Coffee
4:00-5:00 Presentation

PLACE: Cal State at Hayward, North Science Building, Room 220

PRICE: NO CHARGE

RESERVATIONS: Call Loren Schoof (415) 829-9020

BIOSTATISTICAL PROGRAM

SPEAKER: Jessica Ulltis, Ph.D., Associate Professor, Division of Statistics University of California, Davis. Visiting Scientist, SRI Int'l

TOPIC: STATISTICAL METHODS IN PARAPSYCHOLOGY

After 100 years of research, scientists still disagree on whether or not claims for ESP have been substantiated. Many of the arguments are statistical in nature. The scientific study of these claims comprises the field of parapsychology. An overview of statistical methods used in parapsychology will be given along with illustrative examples.

DATE: January 20, 1988 (THURSDAY)
3:30-4:00 Coffee and Cookies
4:00-5:00 Presentation

PLACE: University of California, Berkeley, 1011 Evans Hall

Following the presentation, refreshments will be served at the home of Professor Mike Tarter (2717 Benvenue, Berkeley). Directions will be provided at the meeting.

NOTICE ON DUES:
The date on your mailing label is the date we last received payment of your $6 dues for the San Francisco Bay Area Chapter of ASA. If it has been more than a year since your last payment, rush your check for $6 to: Anna Bagniewska
Syntex Labs
3401 Hillview Avenue L203
Palo Alto, CA 94304

IF THE DATE ON YOUR LABEL IS IN THE YEAR 1985, YOU WILL BE DELETED FROM OUR MAILING LIST IN FEBRUARY, 1988 UNLESS WE RECEIVE YOUR PAYMENT.

TAPES FROM 1987 JOINT STATISTICAL MEETINGS IN SAN FRANCISCO
You can order tapes at $8 each for any one of 100 talks given at the 1987 Conference. See the Sept/Oct 1987 issue of Amstat News for details.
EMPLOYMENT OPPORTUNITIES

1. SENIOR STATISTICIAN, FAILURE ANALYSIS ASSOCIATES
   RESPONSIBILITIES: Development of procedures to perform statistical analyses using a large volume of accident data. In addition, you will coordinate and manage tasks performed by research assistants and junior level statisticians.
   REQUIREMENTS: Minimum of 5 years of related experience and a PhD in Statistics is required. A doctorate-level degree in an engineering discipline and strong statistics background may qualify. Familiarity with experimental and survey designs and knowledge of statistical packages such as SAS and SPSS desirable. Successful candidate will have the ability to convey highly complex issues to both technical and non-technical personnel.
   COMPANY: Failure Analysis Associates is a national engineering and scientific services firm specializing in the analysis and prevention of engineering system and product failures.

2. MANAGING ENGINEER, FAILURE ANALYSIS ASSOCIATES
   RESPONSIBILITIES: Risk analysis and risk assessment in the context of human behavior and machine performance. Responsibilities will include statistical analysis of accident and other data, particularly on consumer products.
   REQUIREMENTS: PhD with a solid background in applied statistics coupled with significant qualifications and experience in the areas of human behavior and engineering. Exceptional communications skills in order to gather information from and convey technical conclusions to both technical and non-technical personnel.

3. SENIOR STATISTICIAN, SYSTEM APPLICATIIONS
   RESPONSIBILITIES: Data analyses requiring originality and ingenuity. Analyses are both confirmatory and exploratory in nature, requiring imaginative approaches to probing and presenting data. Conscientiousness concerning the accuracy, appropriateness, and timeliness of results is essential. Depending on qualifications and interests, the individual may be given major responsibility for selected statistical projects and may participate in marketing activities.
   REQUIREMENTS: At least one year of statistical consultation, especially in the environmental field, is preferred. PhD degree in statistics or equivalent. Oral and written communication skills needed to present results clearly to clients. Ability to program in Fortran, SAS, Minitab, BMDP, and/or other statistical packages is required.
   COMPANY: Systems Applications provides the US Environmental Protection Agency and other governmental and industrial organizations with consulting services related to air and water pollution.
   CONTACT: Job #R-P-87R, Systems Applications Inc., 101 Lucas Valley Road, San Rafael, CA 94903. Equal Opportunity Employer.

4. BIOSTATISTICIAN, XOMA CORPORATION
   RESPONSIBILITIES: Reports to the Vice President, Medical & Regulatory Affairs and Clinical Research. Works directly with Clinical Research Directors to design clinical trials and define clinical data collection requirements. Will implement statistical analysis of clinical trial data for Investigative New Drug Applications and Product License Applications supporting Product Marketing.
   REQUIREMENTS: 3-5 years pharmaceutical or biologics industry experience. Proficient use of computers (VAX/DEC) or IBM compatible and statistical software (SAS). Experience in presenting NDA's or PLA's to FDA and knowledge or current FDA IND regulations required. Excellent written/verbal communications skills a must. PhD or MS degrees in Statistics preferred.
   COMPANY: XOMA Corporation is a leader in the development of therapeutic monoclonal antibody-based pharmaceutical products for human use. XOMA currently has products in FDA-authorized clinical trials for the treatment of gran negative sepsis bone marrow transplantation, melanoma and colorectal cancers, and the detection of melanoma.
   CONTACT: Director, Human Resources, XOMA CORPORATION, 2910 Seventh Street, Berkeley, CA 94710, (415)644-1170.
CALENDAR OF FUTURE EVENTS

DEC 3    THURSDAY   How Random are Telephone Digits? (Gen Applics Program)
DEC 8    TUESDAY    A Bayesian Evaluation of Medical Screening Tests for Rare Diseases (Biostat Program)

GENERAL APPLICATIONS PROGRAM

SPEAKER: Fran McNamee
          Pacific Bell

TOPIC: "HOW RANDOM ARE TELEPHONE DIGITS?"

    The last four digits of a telephone number have sometimes been used to select a random sample. All numbers with a specific, randomly selected digit in one position would produce a 10% cross section. This presentation will discuss the suitability and problems with this sampling method.

DATE: December 3, 1987 (Thursday)
      3:30 - 4:00 Coffee and cookies
      4:00 - 5:30 Presentation

PLACE: Walnut Creek campus of Golden Gate University
       801 Ignacio Valley Rd (5 blocks from Walnut Creek BART Station)
       Free parking surrounds the building.
       Inquire at the Information Desk for assigned meeting room.

PRICE: $3.00 per person. Please call Loren Schoof at (415) 823-9020 by November 30 with reservations.

BIOSTATISTICAL PROGRAM

SPEAKER: Wesley Johnson, Ph.D.
          Associate Professor, Division of Statistics
          University of California at Davis

TOPIC: "A BAYESIAN EVALUATION OF MEDICAL SCREENING TESTS FOR RARE DISEASES"

    There is considerable data available from screening tests for diseases like hepatitis and AIDS. This data, in conjunction with prior information about the accuracies of tests (sensitivity and specificity) as well as prior information about the prevalence (the proportion of the population that is infected) can be combined via Bayes Theorem to obtain posterior densities. Using certain assumptions, the talk will develop the joint posterior for the prevalence, sensitivity, and specificity. Illustrative examples will be given.

DATE: December 8, 1987 (Tuesday)
      3:30 - 4:00 Coffee and cookies
      4:00 - 5:00 Presentation

PLACE: State Department of Health Services
       2151 Berkeley Way (4 blocks from Center Street BART Station in Berkeley)
       The meeting room will be posted in the lobby.

PRESIDENT
Alvin D. Wiggins
(916) 752-7623

PRESIDENT-ELECT
Abraham Silvers
(415) 855-2615

VICE-PRESIDENT
GENERAL APPLICATIONS PROGRAMS
Loren Schoof
(415) 823-9020

VICE-PRESIDENT
BIOSTATISTICAL PROGRAMS
Kelvin K. Lee
(415) 493-5000 x 2161

SECRETARY
Arlene Frazier
(415) 622-6422

TREASURER
Anna Bagowska
(415) 855-5289

COUNCIL OF CHAPTERS REPRESENTATIVE
Barbara Kamm
(415) 855-6163
EMPELOYMENT OPPORTUNITIES

The Department of Medical Economics and Statistics in the Central Office of the Kaiser Permanente Medical Care Program has the following vacancy:

STATISTICIAN - Senior-level position available for a professional with strong quantitative and computer skills. The selected candidate will be responsible for a variety of projects including: conducting special studies and economic research on health care utilization, cost of services, enrollment, and prepaid rates; assisting in the development of recommendations concerning the collection and coding of health care services; consulting on the design and evaluation of health care data.

Desired qualifications: Master's in biostatistics, epidemiology, or applied statistics with 4-5 years experience in directly-related fields; experience with mainframe, large databases, and computerized statistical packages are highly desirable; excellent communication skills; and experience in the health care field preferred.

Excellent compensation and benefits package. For additional information, contact Florence van Geem (415) 271-5987. For confidential consideration, please forward resume to:

Kaiser Foundation Health Plan
1 Kaiser Plaza, Room 2602
Oakland, CA 94612
September, 1987

PRESIDENT'S MESSAGE

It is a distinct honor and privilege to be chosen to serve as your president for the current term. It is my fondest hope to measure up, in some sense, to the high standards of leadership established by some of the recent past presidents of my acquaintance, John Varaday, Karen Jones, Nick Jewell, and Liz King, each one a tough act to follow.

This is YOUR chapter, and I solicit, and will welcome, input from each and every one of you concerning ways in which we can fulfill our purpose as described in the chapter constitution and bylaws, from which I quote:

"The purpose of this organization shall be to foster, in the broadest manner, statistics and its applications, and to promote unity and effectiveness of effort among all groups in the San Francisco Bay Area having an interest in, or being concerned with, statistical problems."

One activity in pursuit of this purpose, which comes to mind is an attempt to bring to the attention of some well defined groups the choice of statistics as a career. To this end, there is available from the Council of Chapters, a collection of slides for presentation in high school or small college math classes. I intend to explore the desirability of rental or purchase of those slides for use by chapter members.

Let me close by quoting from one of a number of T-shirts which my wife bought me for running in road races:

"I must hurry and catch up with the others, for I am their leader."

Al Wiggins

COUNCIL OF CHAPTERS

On August 15, 1987, our council representative (Barbara Kama) and our chapter president (Al Wiggins) attended the Annual Council of Chapters Business Meeting and the Chapter Officers Workshop. They reviewed the services provided by ASA to the Chapters which include speakers list, reference materials, lecture programs, slide shows and video tapes. They learned the Winter conference will be held January 6-8, 1988 in San Antonio.

GENERAL APPLICATIONS PROGRAM

SPEAKER: Richard Chirolfo

TOPIC: The Mathematics Behind Computerized Games

The "Art of War" has produced military miniatures firing cannon shots across simulated battlefields of Napoleonic campaigns and the hordes of laser/nuclear blitz in colored lights. Computers have added speed and the ability to simulate numerous possible outcomes. Presented are the basic types of game design across time and in many cultures, and how these designs are showing up in computerized versions. The simulation models have not long been computer automated though the concepts are old and complex.

DATE: September 17, 1987 (Thursday)
3:00pm - 4:00pm No host cocktails with hors d'oeuvres
4:00pm - 5:30pm Presentation

PRICE: $7.25 per person

PLACE: The Chart House, at the Cannery (lower level)
2801 Leavenworth St, San Francisco

Validated PARKING is available in the Anchorage Center Parking Lot (entrance is off Beach Street). The 30 Stockton bus (Jefferson Loop) will take you to the Chart House from:
- Downtown San Francisco
- BART
- Southern Pacific Railroad Station
- East Bay Bus Terminal (you can walk or transfer from the 38 Geary which goes from the Terminal to the 30 Stockton Line)

PREVIEW OF COMING EVENTS

Mark your calendar for the following 2 one day seminars:

SPEAKER: George Killken
TOPI: Keys to Good Experimentation

DATE: October 27, 1987
(Tuesday)

SPEAKER: Dallas Johnson
TOPIC: Techniques for Analysis of Messy Data

DATE: Early November

TIME: All day

FEE: $100

PLACE: Santa Clara

The next newsletter will have more details on these two seminars.
CONGRATULATIONS!

Congratulations to New Fellows of the American Statistical Association from our Chapter Area. The following persons were honored on August 18, 1987 during the National Meeting in San Francisco.

RUDOLPH BERAN, University of California, Berkeley; for major contributions to the theory and practice of nonparametric and robust inference and of bootstrap and jackknife procedures, and for editorial services to the profession.

LEO BREIMAN, University of California, Berkeley; for outstanding contributions to the theory of probability, statistical methodology, data analysis, statistical computing, and education; and for service to the profession.

HELENA CIMURA KRAEMER, Stanford University; for outstanding contributions to the theory of measures of association, concordance and reliability, and to the application of these to the medical sciences; for excellence in consulting in biobehavioral research; and for editorial services.

EMPLOYMENT OPPORTUNITIES

1. HEALTH SURVEILLANCE DATA ANALYST

Will provide in-house computerization of Health Surveillance system. Will design systems to merge data from various sources which have compatibility problems and will manage and maintain integrity of high-volume database. Additional responsibilities include generating lists of individuals to be tested, inputting data, and generating letters to physicians and patients. Duties will also include performing initial statistical analysis of health surveillance data, and assisting in writing reports on results of studies. Will also design, conduct, and analyze special epidemiologic studies.

Requirements: BA/MA degree or equivalent in mathematics, computer science, statistics or related field. Two years experience in maintenance and analysis of medical data required, in addition to a BA degree. Must have knowledge of SAS and computers. MEDLOG experience is a plus.

Interested candidates - Send resume to Leela Kheifets, mtnx Labs-Mail Stop AS-HS, 3401 Hillview Avenue, Palo Alto, CA 94304

2. RESEARCH CONSULTANT

Identify, conduct, and implement credit scoring and behavior scoring projects in the Bankcard Department. Other responsibilities include the design of databases, data collection, statistical analysis, interpretation of results, formulation of recommendations, interaction with operating departments. Creatively apply computer-based statistical techniques. Ability to work with large data files. Provide oral and written presentations to management.

A Master's degree in statistics or related field, 1 to 2 years of project work in industry, strong written and oral communications skills, and initiative. Experience with computerized statistical packages and demonstrated computer skills with large data files. Experience in Bankcard or banking environments is preferred.

CONTACT: Henry Bennett, AVP
Bank of America
Card Products and Services
Personnel Operations #3947
1 South Van Ness Ave., 5th floor
San Francisco, CA 94103

POSITION WANTED

Statistician looking for leadership position in Sacramento area to further develop professional career. Four years experience including sampling, experimental design, establishing and teaching appropriate levels of SPC Seminars, statistical consulting. BA in Mathematics, MS in Statistics from Miami University in Oxford, Ohio. Adapt with SAS, Fortran, Cobol, Basic, JCL. For further information, contact Margaret C. Miller, 124 Johnston Court, Folsom, California 95630 (916) 985-8809 after 6 PM.

If you would like to correct your address label, make an announcement, or have a job vacancy, write to us by September 19: Arlene Frazier, 38963 Langtry Court, Fremont, CA 94536.
CALENDAR OF FUTURE EVENTS

OCT 9 FRIDAY Orthogonal Design for Process Development and Optimization
(Statistics Task Group of ASQC - Santa Clara Section)
OCT 28 WEDNESDAY Keys to Good Experimentation (Fee Event; Ref: Attached Flyer)
OCT 29 THURSDAY Design and Analysis of Non-replicated Experiments (Joint Gen
Applic and Biostat Programs)
NOV 4 WEDNESDAY Techniques for Analysis of Messy Data (Fee Event; Ref: Attached
Flyer)

STATISTICS TASK GROUP OF THE ASQC (SANTA CLARA SECTION)

SPEAKERS: Professors Li-Qian Zhang and Wan-Ru Liu
Beijing University, China

TOPIC: Short Seminar on "ORTHOGONAL DESIGN FOR PROCESS DEVELOPMENT AND
OPTIMIZATION"

DATE: October 9, 1987 (Friday) 10:00 - 12:00
PLACE: Intel Corporation, Building SC9 Auditorium, Santa Clara
DIRECTIONS: From Hwy 101, take Montague exit. At first stop light, turn left onto
Mission College Blvd. At next stoplight, turn left into Intel parking lot.
For more information, call Don Jittle (408) 496-8871.

JOINT GENERAL APPLICATIONS AND BIOSTATISTICAL PROGRAMS

SPEAKER: Dallas Johnson, Ph.D.
Professor, Statistics Department
Kansas State University
Co-author of Analysis of Messy Data

TOPIC: "DESIGN AND ANALYSIS OF NON-REPLICATED EXPERIMENTS"

DATE: October 29, 1987 (Thursday)
3:30 - 4:00 Coffee and cookies
4:00 - 5:00 Presentation

PLACE: Stanford University Medical Center, Room M106
If you would like detailed directions to the meeting site, please call Kelvin
Lee at (415) 493-5000, ext. 2181.

Professor Bill Brown has kindly offered to be the local host. Following the
presentation, cocktails will be served at his home. Directions will be provided at the
meeting.

PRESIDENT
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(415) 855-2615

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TREASURER
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(415) 855-5289

COUNCIL OF CHAPTERS
REPRESENTATIVE
Barbara Kamm
(415) 855-6163
FEEDBACK

Last year, General Applications Programs were held on the third Thursday, and Biostatistical Programs, on the fourth Thursday. Some Chapter members have complained that they were unable to attend any Chapter meetings because they have classes or meetings or other responsibilities that conflict with Thursday meetings. Therefore, this year on a trial basis, several of the Biostatistical Program meetings will be held on Wednesday.

The Chapter is at the mercy of the U.S. Postal Service for delivery of the newsletters. In general, most members receive the newsletters within 10 days of the mailing date. However, some members complain that the arrival of newsletters are delayed for more than 3 weeks. Please let Arlene Frazier, (415) 622-8422, know of any persistent lengthy delays.

Arlene Frazier, the Secretary of the Local Chapter, would like the newsletter to be more than an announcement of chapter meetings. She would like also to include non-chapter meetings, job openings, personal announcements (e.g. honors, awards, and job changes), etc. Please send any announcements by the middle of the month to: Arlene Frazier, 38963 Langtry Court, Fremont CA 94536.

If you (or if you know someone who) would like to join the local chapter of ASA, please contact Anna Bagniewska, (415) 855-5289.
SUMMER 1987 Calendar

AUG 12      WED      Predictive Statistical Control Charts for Dynamic Process Control (ASQC)

AUG 17-20    MON-THUR Joint Statistical Meetings (ASA, ENAR, WNAR, IMS)

STATISTICS TASK GROUP OF THE ASQC - SANTA CLARA VALLEY SECTION

SPEAKERS: Rahman Azari, University of California at Davis
          Fred Khorasani, Intel Corporation

TOPIC: Predictive Statistical Control Charts for Dynamic Process Control

Most widely used control charts such as Shewhart and CUSUM are based on their assumption of independent observations. However, in many industrial applications, this assumption is rarely valid. Quite often the observations are correlated within the samples, between the samples, or both. This is due to the sampling method and the nature of the manufacturing process. Therefore, the usual control charts may result in erroneous conclusions and costly consequences. In this presentation alternative methods for control charting of correlated datasets using multivariate and time series modeling are given. These methods are applied to data from a wafer manufacturing process, and the results are compared. It will be shown that the control charts based on time series modeling have the added advantage of being predictive and therefore can be used as a tool for dynamic process control.

DATE: Wednesday, August 12, 1987 at 4:00 p.m.

PLACE: Intel Corporation Auditorium
       Santa Clara Building 9
       3601 Juliette Lane
       Santa Clara

DIRECTIONS: Take Montague Exit from Highway 101. At the first light turn left onto Mission College Blvd. At the next light, turn left into Intel parking lot. For additional information, call Fred Khorasani (408) 496-9998.
EMPLOYMENT OPPORTUNITIES

### Syntex Laboratories has the following job opening:

**BIOSTATISTICIAN I/II**

Design, analyze and report Phase IV clinical trials; determine appropriate experimental designs, statistical analysis techniques, and report formats; perform statistical analyses using micro and mainframe computers, and write statistical reports. Must be able to work independently, under pressure, and with medical and other non-statistical staff.

Requirements: MS in biostatistics with 5-10 years of clinical trials experience, or Ph.D. with 1-10 years experience.

If interested, contact:

Laurie Peltier
Syntex Laboratories
3401 Hillview Ave.
Palo Alto, CA 94303
(415) 855-5914

Lucho Bravo
Syntex Laboratories L-1108
3401 Hillview Ave.
Palo Alto, CA 94303
(415) 855-6297

### Failure Analysis Associates, a nationwide engineering and scientific consulting firm, has the following vacancies at its Palo Alto Office:

1. **SENIOR STATISTICIAN (Reference #GF)**
   Responsibilities include:
   - Developing procedures to perform statistical analyses using a large volume of accident data
   - Coordinating and managing tasks performed by research assistants and junior-level statisticians.

   Requirements: Ph.D. in Statistics; a doctorate-level degree in an engineering discipline and strong statistics background may qualify. Familiarity with experimental and survey designs and knowledge of statistical packages such as SAS and SPSS desirable. Must be able to convey highly complex issues to both technical and non-technical personnel.

2. **BIOSTATISTICIAN (Reference #RP.1)**
   Duties include:
   - Quantitative analyses of occupational and environmental epidemiologic studies; health risk assessments; statistical modeling
   - Critical review of the health risk literature
   - Writing reports describing risk assessments

   Requirements: A Master's degree or Ph.D. degree in Statistics or Biostatistics. Good computing skills and familiarity with statistical packages are highly desirable. Applicants should have 3 or more years of relevant experience.

Excellent remuneration and benefits package. Applicants should send a resume to:

Personnel Manager
Failure Analysis Associates
P.O. Box 51470
Palo Alto, CA 94303
1987 JOINT STATISTICAL MEETINGS

The 1987 joint meeting of the ASA, IMS, and the Biometrics Society will be held in San Francisco on August 17-20. Elsewhere in this newsletter are the titles of the special and invited sessions; they are reproduced from the April issue of *Amstat News*. The preliminary program will appear in the June issue of *Amstat News*.

Since the April issue, a few titles and the names of several speakers have been announced. They include:

**Monday, August 17**

8:30 a.m.  General Methodology Lecture #1 will be presented by G.P. Patil of Penn State University, "Encountered Data, Statistical Ecology, Environmental Risk Analysis, and Weighted Distributions".

12:30 p.m.  Economic Outlook Luncheon (Fee Event)
Professor Milton Friedman will present his outlook for the economy.

2:00 p.m.  Congressman Mervyn Dymally will chair a formal congressional hearing by the House Subcommittee on Census and Population about "The Impact of Population Undercount."

**Tuesday, August 18**

8:30 p.m.  ASA Presidential Address
Barbara Bailer will speak on "Statistical Practice in Research: The Essential Interactions".

**Wednesday, August 19**

8:30 a.m.  General Methodology Lecture #2 will be presented by N.A.C. Cressie of Iowa State University, "Statistics of Spatial Data".

4:00 p.m.  The R.A. Fisher Lecture will be given by F. Mosteller of Harvard University.

For the convenience of those Chapter members who are not members of the ASA, a preregistration form has been included in this Newsletter. Chapter members with questions about the joint meeting: Those in the vicinity of Davis, call Alvin Wiggins (916) 752-7623; those in the East Bay, call Elizabeth King (415) 938-9417; those in San Francisco and Marin County, call Arlene Frazier (415) 622-8422; others should call Kelvin Lee (415) 493-5000, #2528.

VOLUNTEERS NEEDED - 1987 JOINT STATISTICAL MEETINGS

The Chapter is issuing a plea for members to volunteer to man the INFORMATION BOOTH or the PRESS ROOM at the Joint Statistical Meetings, to be held at the San Francisco Civic Auditorium. Members will be needed at the INFORMATION BOOTH (to answer questions about transportation, dining, how to get to tourist sites, etc.) from Sunday, August 16 through Thursday noon, August 20.

Please contact Dr. Dean Fearn at California State University, Hayward [(415) 881-3447] if you can volunteer some time or Elizabeth King [(415) 938-9417] if you have any questions. Some books from the Publishers' Exhibits will be available to students who work.
SURVEY OF THE CHAPTER

The new Chapter officers are in the process of making plans for 1987-88, and they would like your input about Chapter activities. What do you want out of the local ASA Chapter membership? How might the Chapter improve its function and/or services to better meet your needs? Although Chapter memberships exceed 500, attendance at Chapter meetings generally average about 30 people. We would like to organize activities to get more members involved. Please take several minutes to complete the enclosed questionnaire, and return it to Kelvin Lee, 515 Tiller Lane, Redwood City, CA 94065. If it is more convenient, call him with your comments at (415) 493-5000, #2528.

To refresh your memory, fifteen meetings were held in 1986-87. The list of speakers:

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<th>General Applic</th>
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<tr>
<td>Sept</td>
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<td>George Milliken</td>
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<td>Janet Williams</td>
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<td>April</td>
<td>Andrew Carey</td>
<td>Nicholas Jewell</td>
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<td>May</td>
<td>Barbara Bailar</td>
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<td>June</td>
<td>Michael Tarter</td>
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POSITION WANTED

Statistician looking for leadership position in quality field. Five years industrial consulting experience with 3-year experience implementing Dr. Deming's techniques. Has MS in Statistics from Univ of Wisconsin (Madison) with research work under Dr. George Box. Strengths include experimental design, SPC, QC, and Taguchi methods. Adept with SAS, Fortran, Minitab, JASS, and IMSL subroutines. For further information, contact Tim Kramer, 4725 Sheboygan #232, Madison, WI 53705. (608) 238-8134/9934.
1987 Joint Statistical Meetings
ASA • ENAR • WNAR • IMS
San Francisco • August 17–20

SPECIAL AND INVITED SESSIONS

MONDAY, AUGUST 17
8:30 a.m.–10:20 a.m.

GENERAL METHODOLOGY LECTURE I
ASA, ENAR-WNAR, IMS

HOW MUCH IS YOUR EX-SPouse WORTH? VALUING HOME PRODUCTION INTERNATIONALY, IN THE U.S., AND LEGALLY

PROBABILITY AND ARTIFICIAL INTELLIGENCE IN MEDICINE

STASTICAL PACKAGES IN TIME SERIES

ADMINISTRATIVE OFFICE OF THE COURTS: NEW STATISTICS

APPLICATIONS OF RECENT METHODOLOGY IN REGRESSION
Stat. Comp. Sec.

THE MISSING, THE HOMELESS, AND THE VICTIM: COUNTING THE HARD TO COUNT
Sec. on Surv. Res. Meth.

SPECIAL INVITED PAPER
IMS

TIME SERIES ANALYSIS
10:30 a.m.–12:20 p.m.

JASA THEORY & METHODS INVITED PAPER
ASA

EPIDEMIOLOGIC METHODS (Dedicated to the Memory of Bernard G. Greenberg)
Bio. Sec., ENAR-WNAR

CASE STUDIES IN QUALITY AND PRODUCTIVITY
Sec. on Phys. & Engr. Sci., ASA Comm. on Quality & Productivity

USING THE SIPP TO ANALYZE FAMILY COMPOSITION AND INCOME DYNAMICS

STATISTICAL COMPUTING, EDUCATION AND FUTURE

WALD LECTURE I
IMS

12:30 p.m.

ECONOMIC OUTLOOK LUNCHEON
Bus. & Econ. Stat. Sec.

2:00 p.m.–3:50 p.m.

THE IMPACT OF POPULATION UNDERCOUNT (Congressional Hearing)
ASA Comm. on Govt. Stat.

STATISTICAL ISSUES IN CHRONIC DISEASE NUTRITION TRIALS
Bio. Sec., ENAR-WNAR

ECONOMETRIC MODELS OF COST AND PRODUCTION FUNCTIONS: SOME COMPARISONS

SURVIVAL ANALYSIS
IMS

RECENT DEVELOPMENTS ON SEQUENTIAL ESTIMATION

QUANTILE DATA ANALYSIS
IMS

4:00–5:50 p.m.

PRESIDENT’S INVITED ADDRESS
ASA

TUESDAY, AUGUST 18
8:30 a.m.–10:20 a.m.

JASA APPLICATIONS INVITED PAPER
ASA

META ANALYSIS OF CLINICAL TRIALS
Bio. Sec.

APPLICATIONS OF RECENT METHODOLOGY IN BAYESIAN ANALYSIS
of DYNAMIC MODELS: THE KALMAN FILTER AND BEYOND

STATISTICS FOR AN AGING SOCIETY

QUALITY CONTROL PROGRAMS IN ACADEMIA AND INDUSTRY
Sec. on Stat. Educ., ASA Comm. on Quality & Productivity

NEW METHODOLOGY IN STATISTICAL GRAPHICS

MEASURING THE CONCENTRATION OF PERSONAL WEALTH IN THE UNITED STATES, 1962–1983
Sec. on Surv. Res. Meth.

SPECIAL INVITED PAPER
IMS

SMALL SAMPLE ASYMPTOTICS
IMS

NONPARAMETRIC STATISTICS
IMS

10:30 a.m.–12:20 p.m.

STATISTICS IN SPORTS
ASA Council of Chapters

IMPROVING THE EFFECTIVENESS OF STATISTICAL CONSULTANTS: A LIVE DEMONSTRATION

NON-STANDARD CLINICAL TRIALS—DESIGN AND ANALYSIS

HOW GOOD ARE ECONOMETRIC MODELS?
Bus. & Econ. Stat. Sec.

RESPONSE SURFACE METHODOLOGY
Sec. on Phys. & Engr. Sci., Sec. on Stat. Graphics

POLICE HANDLING OF DOMESTIC VIOLENCE

PARALLEL PROCESSING IN STATISTICS
Stat. Comp. Sec.

WALD LECTURE II
IMS

2:00 p.m.–3:50 p.m.

TECHNOMETRICS INVITED PAPER
ASA, American Soc. for Quality Control

ENVIRONMENTS AND TOOLS FOR DISPLAYING STATISTICAL DATA

STATISTICAL ISSUES IN ESTIMATION OF PROGRESS AGAINST CANCER
THURSDAY, AUGUST 21
8:30 a.m.-10:20 a.m.

STATISTICS IN NUCLEAR RISK ANALYSIS

APPLICATIONS OF RECENT METHODOLOGY IN BIOPHARMACEUTICAL STUDIES*
Biophasm, Sec.

RECENT IMPROVEMENTS AND FUTURE DEVELOPMENTS IN BUSINESS SURVEYS

EXPERT OPINION: STATISTICAL ISSUES

MAKING THE COMPUTER DO MORE WORK
Stat. Comp. Sec.

ARE HYPOTHESIS TESTS, P-VALUES, AND MULTIPLE COMPARISONS APPROPRIATE TOOLS IN APPLIED RESEARCH?

SPECIAL INVITED PAPER
IMS

PROJECTION PURSUIT
IMS

10:30 a.m.-12:20 p.m.

STATISTICS AND ASSESSMENT OF EQUAL OPPORTUNITIES
ASA Ad Hoc Coordinating Comm. for Equal Opportunity in Stat., ASA Ad Hoc Comm. on Disabled in Statistics

ERRORS-IN-VARIABLES REGRESSION: BIOMETRIC AND ECONOMETRIC PERSPECTIVES

MODELING EXPERT PROBLEM SOLVING

APPLICATION OF RECENT METHODOLOGY IN STATISTICAL GRAPHICS FOR NONSPECIALISTS*
Sec. on Stat. Graphics

ESTIMATING THE SPREAD OF THE AIDS EPIDEMIC
Sec. on Surv. Res. Meth., Bio. Sec., ENAR-WNAR

WALD LECTURE III
IMS
JUNE 1987 Calendar

JUNE 18  THURSDAY  Messy Data Ubiquity - Observations & Implications
       (Joint Gen Applic and Biostat Programs)
       Annual Business Meeting

JOINT GENERAL APPLICATIONS AND BIOSTATISTICAL PROGRAMS

SPEAKER:  Michael Tarter, Ph.D.
University of California at Berkeley

TOPIC:    "MESSY DATA UBICITY - OBSERVATIONS AND IMPLICATIONS"

The blending of computer science and statistical curve
estimation theory has yielded a variety of new and powerful
data analysis tools. When these tools are brought to bear on
seemingly uncomplicated sets of data, in many instances they
disclose patterns of hitherto unsuspected complexity. This
gives rise to the following question: Are populations and
universes of data far more complex than has been previously
suspected or, are apparent anomalous patterns artifacts of the
media and not harbingers of a message?

DATE:  June 18, 1987 (Thursday)
       3:30 - 4:00  Coffee and cookies
       4:00 - 5:00  Presentation
       5:00 -       Annual Business Meeting

PLACE:  Golden Gate University
       Room 404
       536 Mission Street (Between 1st and 2nd Street)
       San Francisco, CA

ANNUAL BUSINESS MEETING

The Annual Business Meeting will be held immediately after the joint
meeting of the General Applications and Biostatistical Programs. The
agenda of the meeting will include the election of officers for 1987-88,
the President's farewell remarks, the Treasurer's report, and any other
business which needs to be addressed. This will be the last meeting
until September.

PRESIDENT
Elizabeth S. King
(415) 938-9417

PRESIDENT-ELECT
Alvin D. Wiggins
(916) 772-7623

VICE-PRESIDENT
GENERAL APPLICATIONS
PROGRAMS
Florence van Geem
(415) 271-5987

VICE-PRESIDENT
BIOSTATISTICAL
PROGRAMS
Abraham Silvers
(415) 855-2615

SECRETARY
Kelvin K. Lee
(415) 493-5000 x2181

TREASURER
Anna Isagniewska
(415) 855-6280

COUNCIL of CHAPTERS
REPRESENTATIVE
Barbara Kamm
(415) 855-0163
According to the Constitution of the S.F. Bay Area Chapter of the ASA, this year's President-Elect, Alvin Wiggins, University of California at Davis, automatically succeeds to the office of President for 1987-88; the Representative to the Association's Council of Chapters, Barbara Kamm, Syntex Labs, is in the midst of a two-year term. A nominating committee comprised of Nicholas Jewell (Chairman), Arlene Frazier, and Karen Jones has recommended the following slate of candidates for Chapter officers during 1987-88:

- **President-Elect** Abraham Silvers, Electric Power Research Institute
- **Vice President-**
  - General Applications Loren Schoof, Pacific Bell
- **Vice President-**
  - Biostatistical Kelvin Lee, Veterans Administration
- **Secretary** Arlene Frazier, Bank of America
- **Treasurer** Anna Bagniewska, Syntex Laboratories

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**Happy Retirement**

Chin Long Chiang, Ph.D., Professor of Biostatistics at the University of California at Berkeley, will retire at the end of June, 1987. He joined the School of Public Health faculty in 1953 after receiving his degree from UC Berkeley and served as head of the Biostatistics Program from 1975-1986 and as co-chair of the group in Biostatistics from 1971 to 1986. A Fellow of the American Statistical Association, Dr. Chiang has served as a consultant to many local, national, and international agencies.

Dr. Chiang was one of the original organizers of the S.F. Bay Area Biostatistics Colloquia. The idea of the colloquia was for statisticians and biostatisticians to keep each other informed about research performed in the Bay Area; they quickly evolved to serve a social as well as an educational function. In 1981, the membership of the Colloquia merged into the S.F. Bay Area Chapter of ASA.

The Chapter is pleased to send sincere best wishes to Professor Chiang for a happy retirement along with the hope that he will continue to participate in Chapter activities and to contribute with presentations and counsel.
VOLUNTEERS NEEDED - 1987 JOINT STATISTICAL MEETINGS

The Chapter is issuing a plea for members to volunteer to man the INFORMATION BOOTH or the PRESS ROOM at the Joint Statistical Meetings, to be held August 17-20, 1987 at the San Francisco Civic Auditorium. Members will be needed at the INFORMATION BOOTH (to answer questions about transportation, dining, how to get to tourist sites, etc.) from Sunday, August 16 through Thursday noon, August 20.

Please contact Dr. Dean Fearn at California State University, Hayward [(415) 881-3447] if you can volunteer some time or Elizabeth King [(415) 938-9417] if you have any questions. Some books from the Publishers' Exhibits will be available to students who work.

EMPLOYMENT OPPORTUNITIES

### Veterans Administration Cooperative Studies Program Coordinating Center at the Palo Alto VA Medical Center (Menlo Park Division) has the following vacancy:

**STATISTICAL PROGRAMMER**

Responsibilities include performing data management and statistical analyses of multi-center clinical trial data using PL/1, FORTRAN, or other high level language and statistical computing packages such as SAS and BMDP.

This position requires a Master's degree in statistics, biostatistics, or related field with programming experience; or a Master's degree in computer science or equivalent with experience in biostatistical applications. Knowledge of JCL, text editors such as WLDBUR or TSO, and microcomputer software is a plus. Experience may be substituted for graduate education. Starting salary range is $22,400 - $27,100.

Applicants must be United States citizens. If interested, send resume to:

Dr. Kenneth E. James  
CSPCC (151-K)  
VA Medical Center  
3801 Miranda Avenue  
Palo Alto, CA  94304

or call (415) 493-5000, x2181.

### Syntex Laboratories has the following job openings:

1. **BIOSTATISTICIAN I/II**

   Design, analyze and report Phase IV clinical trials; determine appropriate experimental designs, statistical analysis techniques, and report formats; perform statistical analyses using micro and mainframe computers, and write statistical reports. Must be able to work independently, under pressure, and with medical and other non-statistical staff.

   Requirements: MS in biostatistics with 5-10 years of clinical trials experience, or Ph.D with 1-10 years experience.
2. **BIOANALYST II**

Perform data manipulation and analysis under the direction of a biostatistician; prepare summary tables for statistical reports; must be able to understand and interpret statistical analyses. Assist biostatisticians and other staff by solving microcomputer problems related to package software, local area networks, printers, and plotters.

Requirements: MS in biostatistics with 1-3 years of experience in data analysis. Must be familiar with SAS and micro and mainframe computers.

If interested, contact:

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### Syva, the medical diagnostics division of Syntex, is currently seeking:

1. **BIOSTATISTICS SUPERVISOR**

Assess statistics requirements throughout the company, defining timeliness and resource needs; supervise the programming staff, develop R&D projects, coordinate biostatistics activities for Syva and be involved with experimental design.

Requirements: a strong statistical background and excellent interpersonal skills. MS or equivalent experience in biostatistics and 7 years job related experience in statistics required, with 3-5 years of supervisory experience. A diagnostic industrial background preferred.

2. **BIOSTATISTICIAN**

Develop, document, implement and review new statistical procedures concerning all aspects of product development, clinical trials, production, quality control and quality assurance. This position has the overall responsibility to ensure that appropriate statistical procedures are being used to collect and analyze data throughout Syva.

Requirements: MS in statistics, biostatistics or biometry, or equivalent training; 3-5 years related job experience, knowledge of SAS and/or RSE, and excellent verbal and written communication skills.

Syva's excellent benefits package includes generous relocation assistance. Please send your resume to: Syva, Dept FS2, Professional Staffing, P.O. Box 10058, Palo Alto, CA 94303.
MAY 1987 Calendar

MAY 19 TUESDAY  Estimation and Adjustment of the 1990 Census (Joint Gen
Applic and Biostat Programs)

JOINT GENERAL APPLICATIONS PROGRAM AND BIOSTATISTICAL PROGRAM

SPEAKER:  Barbara Bailar, Ph.D.
1987 President, American Statistical Association

TOPIC:  "ESTIMATION AND ADJUSTMENT OF THE 1990 CENSUS"

After the 1980 Census, over 35 cities and towns brought legal
action against the Census Bureau due to undercounting. A case is still
pending in New York City. In the meantime, planning and testing is going
forward for the 1990 Census. Decisions need to be made on how much
estimation, including adjustment for undercounting, will take place in
the census. The statistician's role is of major importance.

DATE:  May 19, 1987 (Tuesday)
3:30 - 4:00  Coffee and cookies
4:00 - 5:00  Presentation

PLACE:  University of California, Berkeley
1011 Evans Hall

The San Francisco Bay Area Chapter is honored to have Barbara Bailar,
President of the American Statistical Association, as our speaker. So
that members will have a greater opportunity to meet and visit with
President Bailar, the Chapter has arranged an evening social get-together
in the O'Neill Room at the UC Men's Faculty Club.

6:00  No host cocktails
6:30  Prime Rib Dinner  (Price: $16.00, including tax and tip)

Reservations for dinner are needed. Please call Florence van Geem at
(415) 271-5987 by noon on Friday, May 15. Also call Florence if you will
be unable to attend after making reservations as the Chapter is held
responsible for no-shows. Those unable to join us for dinner are welcome
to attend the presentation.

PREVIEW:  JUNE 18 THURSDAY  Joint General Applications and Biostatistical
Programs followed by the annual business meeting.
EMPLOYMENT OPPORTUNITIES

### Syntex Laboratories has the following job openings:

1. **BIOSTATISTICIAN I/II**
   Design, analyze and report Phase IV clinical trials; determine appropriate experimental designs, statistical analysis techniques, and report formats; perform statistical analyses using micro and mainframe computers, and write statistical reports. Must be able to work independently, under pressure, and with medical and other non-statistical staff.
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   Requirements: MS in biostatistics with 1-3 years of experience in data analysis. Must be familiar with SAS and micro and mainframe computers.

If interested, contact:

Laurie Peltier  
Syntex Laboratories  
3401 Hillview Ave.  
Palo Alto, CA 94303  
(415) 855-5914

Lucho Bravo  
Syntex Laboratories L-1108  
3401 Hillview Ave.  
Palo Alto, CA 94303  
(415) 855-6297

### The Dept. of Medical Economics and Statistics at Kaiser Permanente has the following opening:

**STATISTICIAN**

A senior level professional with strong quantitative skills and computer experience to take a leadership role and be responsible for a variety of projects including: conducting special studies and economic research on health care utilization, cost of services, enrollment and prepaid rates; assisting in the development of recommendations regarding future management information needs; consulting on the design and evaluation of health care data.

Desired qualifications: Master's degree in mathematics, statistics, biostatistics or economics; 3-5 yrs. of pertinent experience; demonstrated expertise with mainframe computers and statistical packages; excellent communications skills.

Forward resume to: Kaiser Permanente, One Kaiser Plaza, Room 2602, Oakland, CA 94612.
Syva, the medical diagnostics division of Syntex, is currently seeking:

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   Assess statistics requirements throughout the company, defining timeliness and resource needs; supervise the programming staff, develop R&D projects, coordinate biostatistics activities for Syva and be involved with experimental design.
   Requirements: a strong statistical background and excellent interpersonal skills. MS or equivalent experience in biostatistics and 7 years job related experience in statistics required, with 3-5 years of supervisory experience. A diagnostic industrial background preferred.

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   Requirements: MS in statistics, biostatistics or biometry, or equivalent training; 3-5 years related job experience, knowledge of SAS and/or RSE, and excellent verbal and written communication skills.

Syva's excellent benefits package includes generous relocation assistance. Please send your resume to: Syva, Dept FS2, Professional Staffing, P.O. Box 10058, Palo Alto, CA 94303.

---

**POSITION WANTED**

Ph.D. Statistician: 3+ years experience in consulting and research; strong survey sampling and modelling background; good computing experience, including SAS, DOS, UNIX, PASCAL, and FORTRAN; excellent communication skills; full range of project experience, including proposal writing, client interaction, project management, and report preparation. Seeking position as applied statistician in the San Francisco Bay Area. If interested, contact: James Bethel, 1648 Newton Street NW, Washington, D.C. 20010.
1987-88 OFFICERS

President Elizabeth King has appointed a Nominating Committee to select the slate of Chapter Officers for the term 7/1/87 to 6/30/88: Nick Jewel [Chairman] (642-7900), Karen Jones (557-1426), and Arlene Frazier (622-8422). Nominations will be made for the offices of President-elect, Vice President-General Applications Programs, Vice President-Biostatistical Programs, Secretary, and Treasurer. If you would like to serve the Chapter or know someone who would, please call a member of the Committee.

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VOLUNTEERS NEEDED - 1987 JOINT STATISTICAL MEETINGS

Chapter members are needed to man the INFORMATION BOOTH and the PRESS ROOM at the Joint Statistical Meetings, to be held August 17-20, 1987 at the San Francisco Civic Auditorium. Members will be needed at the INFORMATION BOOTH from Sunday, August 16 through Thursday, August 20.

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International Pen Pal

Dr. Yan Delun, the Deputy Director of the Shanghai Municipal Statistical Bureau and the Vice President of the Shanghai Municipal Statistical Society, wrote the American Statistical Association with expressions of interest in joint activities. In his letters, he suggested that, since the Shanghai Municipal Statistical Society is a local academic organization, it might be more appropriate to interact with a local organization, like a local chapter. Since Shanghai and San Francisco enjoy sister cities status, the SF Bay Area Chapter seems like a natural place to initiate contact. Although the Chapter will respond to Dr. Yan's letter, individual Chapter members are invited to correspond with him. Any member who is planning to attend the Joint Sino-American Statistical Meeting in Beijing, China on August 31 - September 2, 1987, could take advantage of this opportunity to establish contact with a Chinese statistician. There is not a language barrier as Dr. Yan communicated with the national ASA office in English. He can be reached at:

Dr. Yan Delun, Deputy Director
Shanghai Municipal Statistical Bureau
30 Fuzhou Lu
Shanghai, China
APRIL 1987 Calendar

APR 22 WEDNESDAY  SAS and the Single Statistician: Using PC SAS in the Analysis of Data (Gen Applic Program)
APR 30 THURSDAY Some Issues in Modeling Use of Mental Health Services From Insurance Data (Biostat Program, joint with Stanford Biostat Workshop)

GENERAL APPLICATIONS PROGRAM

SPEAKER:  Andrew J. L. Cary, Bioanalysis Manager
Institute of Research and Data Management
Syntex Research

TOPIC:  "SAS AND THE SINGLE STATISTICIAN: USING PC SAS IN THE ANALYSIS OF DATA"

This lecture will discuss how PC SAS can be used to analyze data from a clinical trial. It is intended as a means for analyzing data and not intended as a discussion of statistical methodology. It will discuss downloading data from a mainframe, reviewing the data, performing analyses of the data, preparing summary tables and graphics, and archiving the resulting analyses. The trial discussed is a double blind parallel trial comparing the pain relief of two drugs. The advantages and disadvantages of performing this type of analysis on a PC using SAS will be discussed.

DATE:  April 22, 1987 (Wednesday)
3:30 - 4:00 Coffee and cookies
4:00 - 5:00 Presentation

PLACE:  California State University at Hayward
North Science 206

Parking is available in coin lot or in Lot F. If you park in Lot F, you must go to the visitor kiosk and get a pass which allows you to park in Lot F (see map on the next page). BART buses are available to the Campus from the Hayward B Street station every 20 minutes.
BIOSTATISTICAL PROGRAM (joint with Stanford Workshop in Biostatistics)

SPEAKER: Nicholas P. Jewell, Ph.D.
Associate Professor
Statistics & Biostatistics
University of California, Berkeley

TITLE: "SOME ISSUES IN MODELING USE OF MENTAL HEALTH SERVICES FROM INSURANCE DATA"

The Federal Employees Health Benefit Plan Study is concerned with an investigation of factors associated with the use of mental health services in an insured population. Several interesting statistical issues arose concerning the sampling design and subsequent data analysis. This talk will discuss some of these issues and provide illustrations using the data set as an example.

DATE: April 30, 1987 (Thursday)
1:15 - 3:00

LOCATION: Stanford Medical School
Psychiatry Building - TD110 (refer to map below)

There will be a coffee break, and refreshments will be served after the meeting.
EMPLOYMENT OPPORTUNITIES

Veterans Administration Cooperative Studies Program Coordinating Center at the Palo Alto VA Medical Center (Menlo Park Division) has the following vacancy:

STATISTICAL PROGRAMMER
Responsibilities include performing data management and statistical analyses of multi-center clinical trial data using PL/1, FORTRAN, or other high level language and statistical computing packages such as SAS and BMDP.

This position requires a Master's degree in statistics, biostatistics, or related field with programming experience; or a Master's degree in computer science or equivalent with experience in biostatistical applications. Knowledge of JCL, text editors such as WYLBUR or TSO, and microcomputer software is a plus. Experience may be substituted for graduate education. Starting salary range is $22,400 - $27,100.

Applicants must be United States citizens. If interested, send resume to:

Dr. Kenneth E. James
CSPCC (151-K)
VA Medical Center
3801 Miranda Avenue
Palo Alto, CA 94304

or call (415) 493-5000, x2181.

The Department of Applied Behavioral Sciences at the University of California at Davis has the following opening:

POST GRADUATE RESEARCHER (PGR II-III)
The research examines the relationship of health and nutrition on the physical and cognitive development of children in developing countries. Responsibilities include:
- Performing duties of a data manager by reading foreign tapes and structuring data into databases and analysis files primarily on the Vax 11/785 machines under VMS and IBM compatible microcomputers
- Supporting software and maintaining some hardware
- Documenting datasets and study methodology
- Preparing study results for presentation and publication
- Consulting on survey design and data collection

This position requires a knowledge of Vax 11/785 OS and tape procedures, standard statistical packages (primarily SPSSX), clinical trials designs, and survey research. Good verbal and written communication skills are highly desirable. Starting salary range is $22,896 - $23,964, commensurate with education and experience. The final filing date is May 15, and the position is to begin on or about July 1.

If interested, applicants should send resume with a statement of interest and qualifications to:

LaVon Missell
Department of Applied Behavioral Sciences
University of California
Davis, CA 95616
Ph.D. Program in Criminal Justice

The field of criminal justice has been moving rapidly in a quantitative direction. However, many doctoral candidates from traditional criminology, sociology, or political science programs are ill-equipped to handle the level of statistical sophistication required of Ph.D. students in criminal justice. The City University of New York (CUNY) has a Ph.D. program in criminal justice and would like to contact either (1) students with a Master's degree in statistics or statistics/computer science who might be interested in switching to a "content field" for the Ph.D., or (2) persons working in the field with a Master's degree in some quantitative field who are contemplating returning to school. If you would like to learn more about the program, write to:

Carl F. Wiedemann
Graduate Studies
John Jay College of Criminal Justice
444 W. 56th Street
New York, NY 10019

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IMPORTANT NOTICE

Beginning with the previous issue of the Newsletter, the date you last paid Chapter dues has been shown on the mailing label following your name. Please take a moment to check it. If you see a date more than a year ago and you have not made a recent payment to the National ASA Office, please use the form below to send your membership dues to our treasurer, Anna Bagniewska. Also contact Anna (855-5289) if you feel that there is an error in the date; the Chapter plans to further pare the mailing list in the near future. An "**" with no date means that you are receiving the Newsletter as a courtesy. We would welcome you as a Chapter member with payment of local dues. If you pay Chapter dues to the National ASA Office, the date shown has been provided by them.

Anne Bagniewska, Biostatistician, Syntex Labs, 3401 Hillview Avenue L2036, Palo Alto, CA 94304

Please extend my local Chapter Membership another twelve months. I have enclosed a check for $6 Regular or $1 Student Membership payable to ASA-S.F. Chapter.

NAME ---------------------------------------------------

ADDRESS ---------------------------------------------------
MARCH 1987 Calendar

MAR 26 THURSDAY   Estimating Extreme Quantiles of Time Series
                   (Biostat Program)

BIOSTATISTICAL PROGRAM

SPEAKER:  Anthony Thrall, Ph.D.
           Electric Power Research Institute (EPRI)

TOPIC:    "ESTIMATING EXTREME QUANTILES OF TIME SERIES"

Assessing acute health hazards from environmental pollutants requires one to estimate how high environmental concentrations are likely to be under existing and alternative control strategies. The concentrations can sometimes be reasonably modelled as a time series. The accuracy of different quantile estimators will be discussed, and exact and asymptotic results will be reviewed.

DATE:     March 26, 1987 (Thursday)
           3:30 - 4:00 Coffee
           4:00 - 5:00 Presentation

PLACE:    L-2115, Main Conference Room
           Syntex Labs Building (see map)
           Hillview Avenue in Palo Alto

John Varady has kindly offered to be the local host. Following the presentation, refreshments will be served at his home. Directions will be provided at the meeting.
The Local Arrangements Committee has been very busy providing publicity support to the National ASA Office and making plans for the Information Booth which will be located at the Civic Auditorium (location for all daytime sessions). Watch your next few issues of AMSTAT NEWS for some of the articles provided by Chapter members, Dave Kimble and Rose Ray.

If you are available to work at the Information Booth, contact Dean Fearn (881-3447). Other members working on the brochure to be available at registration or on local press publicity are Joyce Baptista, Joe Doyle, Arlene Frazier, Wes Johnson, Barbara Kamm, Andrea Lash, and Liz King.

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Anna Bagniewska, Biostatistician, Syntex Labs, 3401 Hillview Avenue L2036, Palo Alto, CA 94304

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NAME---------------------------------------------------------------

ADDRESS-------------------------------------------------------------

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EMPLOYMENT OPPORTUNITIES

### Instruction and Research Information Systems (IRIS), a division of Academic Computing and Information Systems, Stanford University, is seeking:

**STATISTICAL COMPUTING SPECIALIST** - responsible for evaluating statistical computing needs and practices of academic community and planning and implementing support strategies; consulting on statistical software and applications; evaluating software; presenting seminars; participating in software maintenance.

**Qualifications:** Degree in Statistics, Computer Science, or related field; excellent and varied computing skills; 3-5 years recent data analysis and statistical package experience.

**Salary:** Range for Scientific Programmer III $2,608-4,242 per Month (Depending on Years of Applicable Experience)

Applicants should send resume and letter, and direct inquiries to:

Cathy Smith
IRIS
Sweet Hall, 3rd Floor
Stanford, CA 94305-3091
(415) 723-1055

### Syntex Laboratories in Palo Alto has the following vacancy:

**BIOSTATISTICIAN I/II** - design, analyze, and report Phase IV clinical trials; determine appropriate experimental designs, statistical analysis techniques, and report formats; perform statistical analyses and write statistical reports. Must be able to work independently, under pressure, and with medical and other non-statistical staff.

**Requirements:** Masters or Doctorate in Biostatistics or Statistics, with pharmaceutical clinical trials experience. Fluency with SAS and knowledge of DOS helpful.

For more details, contact:

Lucho Bravo
Human Resources
Syntex Laboratories
3401 Hillview Ave. L2036
Palo Alto, CA 94330
(415) 855-6297
AMENDMENT

GENERAL APPLICATIONS PROGRAM

SPEAKER: Janet L. Williams, Ph.D.
Mathematics Department
University of California at Irvine

TOPIC: "MODELLING AN ELECTRICAL-SORT YIELD OF INTEGRATED CIRCUIT"

Janet Williams, a Visiting Scholar at the UC Berkeley Statistics Department, will present data from 2 fractional factorial experiments. The data will be used to illustrate regression modelling of yield as a function of manufacturing process data. Her presentation will address the definition of the dependent variable and discuss at what point of the analysis does one conclude that further modelling is futile.

DATE: March 19, 1987 (Thursday)
12:00 - 1:00 Luncheon
1:00 - 2:00 Presentation

PLACE: Bardelli's Restaurant
243 O'Farrell Street
San Francisco (2 1/2 blocks from Powell St. Bart Station)

PRICE: $11.50/person. At lunch, choose from a selection of entrees including chicken, fish, and cannelloni.

Please call Florence van Geem, (415) 271-5987, by March 17 (Tuesday) with reservations. Those unable to join us for lunch are welcomed to attend the presentation at 1:00 and should also telephone Florence so that an adequate-sized room can be reserved.
FEBRUARY 1987 Calendar

FEB 20 FRIDAY  Probability, Statistics, and Operations Research in LOTUS 1-2-3 and SYMPHONY (Gen Appl Program)

FEB 26 THURSDAY  Non-Linear Regression with Heteroscedastic Pharamacokinetic Type Data (Biostat Program)

GENERAL APPLICATIONS PROGRAM

SPAKER: Laurence George, Ph.D.
Expert Statistical Systems, Inc.

TOPIC: *PROBABILITY, STATISTICS, AND OPERATIONS RESEARCH IN LOTUS 1-2-3 AND SYMPHONY*

Larry George will describe LOTUS 1-2-3 and SYMPHONY templates for probability, statistics, and operations research by describing a few templates in detail and mentioning the rest. He will describe Fest Conconi (piecewise linear regression), risk analysis, and possibly Markov processes. Statisticians like to program solutions to their own problems; unfortunately, this may not be an efficient use of their abilities. The templates described will make their problem-solving quick and painless.

DATE: February 20, 1987 (Friday)
12:00 - 1:00 Luncheon (Cost: $8 per person)
1:00 - 2:00 Presentation

PLACE: Redwood Room at Pac Bell
2600 Camino Ramon in San Ramon, California

DIRECTIONS:
Take the Hollinger Canyon exit off Hwy 680, and proceed east. At the second light, turn left onto Camino Ramon. Pac Bell will be on your left about 1/2 mile down the road. After parking in the visitors' parking lot, enter the building at the main entrance near the fountain. Attendees will need to sign in at the desk. The Redwood Room is in the dining room area; the receptionist will provide directions.

Those unable to join us for lunch are welcome to attend the presentation at 1:00. Reservations are essential for lunch. If you have not been made through Pac Bell, please contact Florence van Geem at (415) 271-5987 by Wednesday, February 19, to make a luncheon reservation.

BIOSTATISTICAL PROGRAM

SPAKER: Stuart L. Beal, Ph.D.
Associate Professor of Biostatistics
University of California at San Francisco

TOPIC: "NON-LINEAR REGRESSION WITH HETEROSCEDASTIC PHARMACOKINETIC TYPE DATA"

Techniques will be outlined. Simulation results will be presented that evaluate point estimates and confidence interval coverage.

DATE: February 26, 1987 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Toland Hall in the Clinics Building (old) of the University of California at San Francisco
Parnassus Avenue near 3rd Avenue
EMPLOYMENT OPPORTUNITIES

### Failure Analysis Associates, an engineering and scientific consulting firm, has the following vacancy at its Palo Alto office:

**BIOSTATISTICIAN/EPIDEMIOLOGIST** with a Master's degree in Statistics, Biostatistics, or Epidemiology with a strong biostatistics component. Duties include:
- Assisting in the conduct of quantitative epidemiologic studies, health risk analyses, and statistical analyses
- Performing literature reviews and maintaining literature reference databases
- Running analyses using statistical software packages

Good computing skills and familiarity with statistical packages are highly desirable. Excellent remuneration and benefits package.

Applicants should send a resume to:

Personnel Manager  
Reference: RP.1  
Failure Analysis Associates  
P.O. Box 51470  
Palo Alto, CA 94303

### Coopers & Lybrand, a management consulting service, is assisting a Southeastern Michigan based marketing firm to fill the following position:

**QUANTITATIVE ANALYSIS MANAGER (DIRECTOR)** - Responsible for all research and development, including the creation and modification of quantitative and graphical models of consumer behavior for multi-outlet retailing clients of an expanding consulting firm.

Specifications:
- M.A. or Ph.D. in Statistics
- 3 to 5 years experience developing mathematical models of business situations
- Knowledge of Fortran and familiarity with SAS or SPSS

Starting Compensation: $50 - 70,000 annually  
Excellent fringe benefit package  
Relocation negotiable

Applicants should send resume and brief letter and direct all further inquiries to:

Brian R. Walby, Ph.D.  
Management Consulting Services  
Coopers & Lybrand  
900 Renaissance Center  
Detroit, Michigan 48243  
(313) 446-7411
If there is a modification to your address label (e.g. correct misspellings, correct address, or add internal mail routing code), or if you have an announcement or a job vacancy, let me know by writing: Kelvin Lee, 515 Tiller Lane, Redwood City, CA 94065, by the middle of the month.
BEST WISHES FOR A HAPPY AND HEALTHY 1987!!

JANUARY 1987 Calendar

JAN 29 THURSDAY Methods for Analyzing Data with Covariate Measurement Error (Biostat Program)

BIOSTATISTICAL PROGRAM

SPEAKER: Alice Whittemore
Professor of Family, Community and Preventive Medicine
Stanford University Medical Center

TOPIC: "METHODS FOR ANALYZING DATA WITH COVARIATE MEASUREMENT ERROR"

Epidemiological studies of estimating covariate effects find that often these covariates have measurement error. For example, in environmental studies, estimates of exposure are fraught with error. Dr. Whittemore will discuss various strategies to handle such situations.

DATE: January 29, 1987 (Thursday)
3:30 - 4:00 Coffee
4:00 - 5:00 Presentation

PLACE: Electric Power Research Institute (EPRI)
3412 Hillview Avenue
Palo Alto, CA

DIRECTIONS: EPRI is located on Hillview Avenue near Arastradero Road in Palo Alto. Go to Building 1, and the guard will direct you to the Auditorium.

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PREVIEW: Feb 20, Friday
Dr. Laurence George of Expert Statistical Systems, Inc., will speak about LOTUS templates for statistics, probability, and operations research.

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Abraham Silvers
(415) 855-2615

SECRETARY
Kelvin K., Lee
(415) 493-5000 x2181

TREASURER
Anna Bagiewska
(415) 855-5289

COUNCIL of CHAPTERS
REPRESENTATIVE
Barbara Karm
(415) 855-6163
PETITION FOR 1989 COMMEMORATIVE STAMP

We, the undersigned, petition the U.S. Postmaster General and U.S. Postal Service to issue a special postage stamp in 1989 to commemorate the Sesquicentennial Celebration of the American Statistical Association, which was founded on November 27, 1839 in Boston, Massachusetts.

The American Statistical Association (ASA) is now one of the oldest professional organizations in the United States and has served the needs of individuals in education, business and industry, and government. For academic institutions, ASA is the forum for the presentation of emerging research and current educational practices of statistical methods to the biological, physical and engineering, social, and agricultural sciences. ASA also coordinates the network for preparing statisticians at the pre- and post-graduate levels, and ensures that the interests of teachers of statistics are represented through liaison with industry and government. For business, labor, financial and industrial organizations, ASA fosters statistical standards in research and applications necessary to assure the quality of techniques used for decision-making and forecasting. For governmental agencies, ASA provides advice and technical assistance at the federal, state, and local levels, ranging from demography and census information, education and justice, to public health, nuclear regulation, and the environment.

NAME

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Return to: Dr. Alan J. Izenman, Department of Statistics, Temple University, Philadelphia, PA 19122
Employment Opportunities

## The California Department of Fish and Game anticipates the following opening: Experienced STATISTICIAN in its Southern California Biometrics Unit in Long Beach. The title of this position is Statistical Methods Analyst III with a salary range of $2768 to $3339 per month plus benefits.

Applicants must have a Masters or Doctorate and/or experience, specializing in fisheries or ecological statistics including sampling theory, experimental design, multivariate techniques, and EDA. Also, experience in fisheries population dynamics and stock assessment is advantageous.

Interested persons should submit their resumes to:

California Department of Fish and Game
ATTN: Richard L. Dixon
1301 West 12th Street
Long Beach, CA 90813

## Environmental Health Associates, Inc., a private consulting firm in environmental and occupational health research, has the following opening: STATISTICAL PROGRAMMER with two or more years of programming experience in SAS and dBASE. Experience with SYMPHONY, SAMNA, CMS, and the IBM EXEC language is desirable. A B.S. degree in statistics, public health, or a biological science with some statistical experience is required.

Interested persons should send a resume, and a letter discussing experience and salary requirements to:

Environmental Health Associates, Inc.
ATTN: Robert Graebner
P. O. Box 23050
Oakland, CA 94623-2305

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Petition for ASA Postage Stamp

The ASA Board of Directors has approved circulation of a petition requesting that a special U.S. postage stamp be issued in 1989 to celebrate the ASA Sesquicentennial. Petitioners need not be statisticians; the only requirement are U.S. citizenship with a U.S. residential address and must be at least 18 years of age. The SF Bay Area Chapter encourages its members to obtain signatures on the attached petition from colleagues, friends, relatives, staff, students, neighbors, etc. Return petitions to Dr. Alan Izenman at Temple University. Additional petitions may be machine copied.

* * * * * * * * * * * * * * * *

If there is a modification to your address label (e.g. correct misspellings, correct address, or add internal mail routing code), or if you have an announcement or a job vacancy, let me know by writing: Kelvin Lee, 515 Tiller Lane, Redwood City, CA 94065, by the middle of the month.
HAPPY HOLIDAYS!!

DECEMBER 1986 Calendar

DEC 11 THURSDAY  Survey of Games (General Applications Program)

GENERAL APPLICATIONS PROGRAM

SPEAKER:  Michael Orkin, Ph.D.
Chairman, Department of Statistics
California State University, Hayward

TOPIC:  "SURVEY OF GAMES"

Professor Orkin received his Ph.D. from the University of California at Berkeley where he studied game theory with Professor David Blackwell. His current research specialty is game theory. Professor Orkin will discuss popular gambling games including casino games, lotteries, horse racing, and sports betting. If time permits, he will discuss other types of games.

DATE:  December 11, 1986 (Thursday)
3:30 - 4:30  Presentation
4:30 - 5:30  No-host cocktails with hors d' oeuvres

PLACE:  El Caballo Restaurant
67 Jack London Square
Oakland, CA

PRICE:  $4.00/person.  Please call Florence Van Geem at 
(415) 271-5987 by Wednesday, December 10, with reservations.

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If there is a modification to your address label (e.g. correct address, add internal mail routing code, or correct misspellings), or if you have an announcement or a job vacancy, let me know by writing:  Kelvin Lee, 515 Tiller Lane, Redwood City, CA  94065, by the middle of the month.
Employment Opportunity

The Veterans Administration Cooperative Studies Program Coordinating Center at the Palo Alto VA Medical Center (Menlo Park Division) has 2 vacancies:

1. **Biostatistician**
   Responsibilities Include:
   - Consulting with medical investigators in the design, implementation, and analysis of multi-center clinical trials in the Veterans Administration.
   - Responsibility as a team leader for clinical trials in the ongoing and final analysis stages, including data coordination, statistical analysis, programming and data processing.
   - Providing support for the administrative and operational aspects of assigned clinical trials, functioning as a project manager.
   Candidates should have a Ph.D. in statistics, biostatistics or related field, with experience in medical consulting. Alternatively, the candidate could have a Masters degree with three to four years of experience in multi-center clinical trials. Good verbal and written communication skills are required with the ability to make effective presentations of research proposals. The starting salary range for the position is $32,500 to $38,700.

2. **Statistical Programmer**
   Responsibilities Include:
   - Design, debugging, implementation, documentation, and maintenance of programs which generate statistical analyses, tables, and/or graphs using PL/1, FORTRAN, and other high level languages and statistical computing packages such as SAS and a BMDF.
   - Providing support to biostatisticians and administrative personnel in a multi-center clinical research setting.
   This position requires a Masters degree in statistics, biostatistics or related field with programming experience; or a Masters degree in computer science or equivalent with experience in biostatistical applications. Knowledge of JCL, text editors such as WYLBUR or TSO, and microcomputer software is a plus. Experience may be substituted for graduate education. Starting salary range is $22,400 - $27,100.

Applicants for these positions must be United States citizens. If interested, send resume to:

    Dr. Kenneth E. James  
    CSPCC (151-K)  
    VA Medical Center  
    3801 Miranda Avenue  
    Palo Alto, CA 94304

or call (415) 493-5000, x 2181
American Statistical Association
SAN FRANCISCO BAY AREA CHAPTER

NOVEMBER 1986 Calendar

Nov 20    Thursday  Statistical Issues in The Use of Twins for Studies of Heritability (Joint General Applic and Biostat Program)

JOINT GENERAL APPLICATIONS AND BIOSTATISTICS PROGRAM

SPEAKER:    Dorit Carmelli, Ph.D.
            Senior Biostatistician, Stanford Research Institute (SRI)

TOPIC:      "STATISTICAL ISSUES IN THE USE OF TWINS FOR STUDIES OF HERITABILITY"

Dr. Carmelli was granted her Ph.D. in Mathematical Genetics from the Weizmann Institute in Israel. She has been
with SRI for 6 years, currently in the Department of Behavioral Medicine. Her presentation will discuss the
statistical assumptions commonly made in studies of twins and will address their validity.

DATE:       November 20, 1986 (Thursday)
            3:30  Coffee
            4:00  Presentation

PLACE:      Hewlett-Packard
            Mystery Conference Room in Bldg. 4
            1501 Page Mill Rd (near Foothill Expressway)
            Palo Alto, CA

Please allow a few extra minutes on Nov. 20. Assemble in the main lobby in Bldg. 4. Attendees must be "escorted"
to the meeting room.

PREVIEW:    Dec 11, Thursday  Dr. Michael Orkin, CSU at Hayward, will talk about "Games of Chance" (lottery, casino, etc.)

Lockheed has the following vacancy:

Work in Reliability Assessment group of Missiles Systems Division. Prefer Masters Degree in Statistics with knowledge of
SAS. U.S. Citizenship required. Contact:

James J. Bucia\k
Dept. 04-42 Bldg 584
Lockheed Missiles and Space Company, Inc.
P.O. Box 3504
Sunnyvale, CA 94088-3504
(408) 742-1218

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For those members who have not paid their Chapter dues, please send $6 for regular membership or $1 for student membership to Anna Bagniewska. Ignore this reminder if payment of annual local dues has been made to the national office in Washington, D.C. If you know of anyone who may be interested in Chapter membership, please submit the person's name to Anna, or encourage the prospective member to contact Anna.

Anna Bagniewska, Biostatistician, Syntex Labs, 3401 Hillview Avenue L2036, Palo Alto, CA 94304.

Please extend my local chapter membership another twelve months. I enclose a check for $6.00 (or $1.00 for student membership) payable to ASA - S.F. Chapter.

Name ________________________________________

Address _______________________________________

City & State ___________________________ Zip __________
OCTOBER, 1986 Calendar

Oct. 16 Thursday  The Practical Side of Interim Analyses - Suggested Guidelines and Methods for Project Decision Making in Clinical Studies (Biostat. Progr.)
Oct. 27 Monday  Sequential Experimentation Strategy (ASQC, ASA-SF, IEEE-Reliability)
Oct. 28 Tuesday  Keys to Good Experimentation (FEE EVENT)

BIOSTATISTICS PROGRAM

SPEAKER:  Allen Izu
Manager of Biostatistics
Syntex Research

TOPIC:  "THE PRACTICAL SIDE OF INTERIM ANALYSES - SUGGESTED GUIDELINES AND METHODS FOR PROJECT DECISION MAKING IN CLINICAL STUDIES"

DATE:  October 16, 1986 (Thursday)
3:30 - Coffee
4:00 - Presentation

PLACE:  University of California at Berkeley
1011 Evans Hall

Professor Mike Tarter has kindly offered to be the local host. Following the presentation, refreshments will be served at his home (2717 Benvenue in Berkeley).

ASQC (Santa Clara), ASA (SF Bay Area), and IEEE (Reliability)

SPEAKER:  Dr. George Milliken
Co-author, Analysis of Messy Data

Talk

TOPIC:  "SEQUENTIAL EXPERIMENTATION STRATEGY"

DATE:  October 27, 1986 (Monday)
6:00 - Dinner
7:00 - Presentation

PLACE:  ROLM Cafeteria

Seminar

TOPIC:  "KEYS TO GOOD EXPERIMENTATION"

DATE:  October 28, 1986 (Tuesday)
8:30 a.m. - 5:30 p.m.

PLACE:  Syva Building at Syntex

FEE:  $100 (Handouts & Lunch)

Refer to attached flyer for additional information.
Announcements

At the Joint Statistical Meeting in Chicago in August, the election of 20 new ASA Fellows were announced; three are from Northern California:

KESSLER A. DOKSUM, Professor of Statistics, University of California, Berkeley; for original and fundamental contributions to statistical inference especially rank tests, shift functions, and graphical methods; for extensive editorial services; and for general services to the profession.

GEORGE G. ROUSSAS, Professor of Statistics, University of California, Davis; for fundamental scholarly work on large sample theory and inference procedures for Markov processes, for international contributions toward the enhancement of statistical practices, and for excellence in teaching and dedicated administrative leadership.

KENNETH W. WACHTER, Professor of Demography and Statistics, University of California, Berkeley; for significant research contributions at the interface between demography and statistics, for innovative data analysis in a variety of fields, for excellence in teaching, and for dedicated service to the profession.

The San Francisco Bay Area Chapter of ASA is pleased to congratulate Professors Doksum, Roussas, and Wachter for receiving this honor.

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The ASA is initiating an experimental series of Winter Conferences. The first will be held in Orlando, Florida, on January 7–9, 1987. The second and third ASA Winter Conferences are tentatively scheduled for San Antonio (January 1988) and Southern California (January 1989), respectively. The theme for the first conference is "Statistics in the Information Age".

These conferences are not intended to be mini annual ASA meetings. The idea is to provide a forum for individuals who are not theoretical research-oriented statisticians. Non-ASA members who practice statistics will be offered an opportunity to attend and present papers. In general, presented papers will be more expository and applied in nature than papers at the Annual Meeting, with the goal of appealing to a broader spectrum of persons practicing statistics. See the advertisement for more details and where to write for additional information.

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If you have an announcement or a job vacancy, let us know by writing: Kelvin Lee, 515 Tiller Lane, Redwood City, CA 94065, by the middle of the month.
Statistics in the Information Age

ASA WINTER CONFERENCE ■ ORLANDO, FLORIDA ■ JANUARY 7-9, 1987

The first annual ASA Winter Conference will be held January 7-9, 1987, at the Peabody Hotel in Orlando, Florida. The Peabody is a new hotel located in close proximity to the tourist attractions southwest of Orlando.

The theme of the 1987 Winter Conference is "Statistics in the Information Age." Three participating ASA Sections will sponsor sessions: Statistical Computing, Statistical Education, and Statistical Graphics. Papers will be generally more expository and applied in orientation than at the Annual Meetings, with the goal of appealing to a broad spectrum of persons practicing statistics. Some objectives are to provide an opportunity to learn from experts on current topics in statistical computing, education, and graphics; to provide a forum for discussion of topics of general interest in these areas; and to provide a medium for practicing statisticians to relate useful experiences in computing, education, and graphics.

The format of the Winter Conference will be new. Highlights of the program will include featured presentations sponsored by each of the participating Sections. The speakers are William F. Eddy, Carnegie-Mellon University (Computing), Thomas J. Boardman, Colorado State University (Education), and William S. Cleveland, AT&T Bell Labs (Graphics). In addition to sponsoring invited paper sessions, each participating Section will sponsor an invited poster session. Sessions will be scheduled for orally presented contributed papers in the general areas of statistical computing, education, and graphics. Contributed papers on other topics will be presented in poster sessions.

Some of the topics on the preliminary program are as follows:
- Computer program packages for graphics in statistical education
- Enhancing quantitative literacy
- Practical graphical techniques for design and analysis of experiments
- Graphics for multivariate statistical process control
- Computing methods to enhance graphical analysis
- Graphical methods to enhance computing
- Statistical computing and personal computers
- Graphical methods in regression analysis
- Career planning in statistics
- Getting the statistical message to management

The Program Chair is Ramon Littell, University of Florida. The Section Program Chairs are Ronald Helms, University of North Carolina (Computing); Ronald Randles, University of Florida (Education); and Perry Haaland, Becton Dickinson Research Center (Graphics). The Local Arrangements Chair is Linda Malone, University of Central Florida.

For those members who have not paid their Chapter dues, please send $6 for regular membership or $1 for student membership to Anna Bagniewska. Ignore this reminder if payment of annual local dues has been made to National ASA. If you know of anyone who may be interested in Chapter membership, please submit the person’s name to Anna, or encourage the prospective member to contact Anna.

Anna Bagniewska, Biostatistician, Syntex Labs, 3401 Hillview Avenue L2036, Palo Alto, CA 94304.

Please extend my local chapter membership another twelve months. I enclose a check for $6.00 (or $1.00 for student membership) payable to ASA - S.F. Chapter.

Name

Address

City & State

Zip
EMPLOYMENT OPPORTUNITIES (CONTINUED):

3. **STATISTICIAN**, UCSF, Dept of Epidemiology & Internal Health

**RESPONSIBILITIES:** Conduct statistical analysis of national health surveys using multivariate and weighted analyses with prewritten statistical programs. Adapt or modify computer programs for use in analyzing survey data. Create, document and maintain computer data files. Advise senior staff on data processing options.

**REQUIREMENTS:** MA or equivalent in Biostatistics. Strong SAS or SPSSX. Experience with survey research and complex sample survey design desirable. Interest and capability to conduct analyses of a large national data set employing a complex sampling design is required.

**SEND RESUME:** John Neuhaus or Maradee Davis, Dept. of Epidemiology and Intl. Health, UCSF, San Francisco, CA 94143-0560. Phone (415) 476-2528.

4. **BIOANALYST**, Syntex, Palo Alto

**RESPONSIBILITIES:** Analyze data from clinical trials. Understand and interpret statistical analyses, generate summary tables and graphs for presentation.

**REQUIREMENTS:** MA in Statistics or Biostatistics. Three years experience in data analysis and computer programming. SAS programming and strong microcomputer skills.

**SEND RESUME:** Carol A. Francisco, 3401 Hillview Avenue, Palo Alto, CA 94304. Phone (415) 354-7141.

**CHAPTER NEWS:** Barbara Kamm has been elected District Governor, District 7 for the ASA Council of Chapters. Barbara previously served as the SF Bay chapter representative to the Council of Chapters; she will serve a two year term, 1989-1990, as Council Governor.

**CHAPTER DUES:** Several members are more than a year behind in local chapter dues. Please check the date on your mailing label. The printed date is the last time that we received your dues. If you are overdue please send $6 to:

Anna Bagniewska  
Syntex Labs  
3402 Hillview Avenue A4-200  
Palo Alto, CA 94303
ANNOUNCEMENTS:

Stanford Students Invite You to Lunch: Participate in STATS.

The students at the Statistics Department of Stanford University have a new program "Statisticians Together to Augment Training at Stanford" of STATS. The program consists of a series of informal luncheons with several students meeting a corporate statistician. The purpose of STATS is to supplement the theoretical training that the students receive with a practical sense of how statistics are used in the real world. We basically just want to know what it is that statisticians do for different corporations. We are looking for non academic statisticians to take part in the program. You will be able to choose the time, date, location and number of students â€” you would like to meet.

CONTACT: Vance Berger, Director STATS, Dept. of Statistics, Sequoia Hall, Stanford, CA 94305. Phone (415)723-2213. or vance@playfair.stanford.edu.
PRESIDENT'S MESSAGE:

As our Chapter begins a new year, I look forward to the challenge of serving the community of statisticians in the San Francisco Bay Area as your new President and I welcome this opportunity to communicate with you. Your Chapter officers have already met once this summer to outline plans for the year ahead plus consider some longer range goals. I am joined by an excellent team of people whom I know are dedicated to making this year outstanding.

Florence van Geem and Abe Silvers, along with Fred Khorasani, representing the ASQC Statistical Task Group, are already involved in arranging the series of regular meetings that the Chapter holds throughout the Bay Area. As well as meetings designed around the specific themes of general applications, biostatistics or quality control, there will be joint meetings including some held in conjunction with other professional associations. I'm sure all three officers would welcome any suggestions you might have concerning format, subject matter or potential speakers.

Kelvin Lee, our Chapter Secretary, is working to reestablish a regular newsletter format that will include specific meeting announcements, job openings and any other pertinent information that should be communicated to our members. His job demands a lot of coordination among not only your officers, but also you as members. If you have news items that could be included, please contact him.

Anna Bagniewska, as Treasurer, will see we remain financially solvent and will be reminding those of you who pay "Local Dues" directly to the Chapter to send her your $6.00 annual amount.

Barbara Kamm, our Chapter Representative to the Council of Chapters, 1987-88, has already assumed the responsibilities of this office by attending the Annual Meeting in Chicago last month. We expect she will have some feedback for us shortly regarding the current activities of the Council.

Now, for two items of interest to this Chapter this year that are over and above our regular activities. First, and most important, San Francisco is to be host for the "1987 Joint Statistical Meetings", August 17-20. We have been asked to form a Local Arrangements Committee to provide support to the National office primarily in the areas of publicity and general information. At this time I would like to announce that the following Chapter members have agreed to join me on this vital committee: Joe Doyle, Dean Fearn, Arlene Frazier, Karen Jones, Dave Kimble and Al Wiggins. I would also welcome hearing from any other Chapter members who would be interested in joining this group. We will be scheduling a meeting later this year with Jean Smith, Associate Director for Meetings and Publications, to outline our work.

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PRESIDENT
Elizabeth S. King
(415) 938-9417

PRESIDENT ELECT
Alvin D. Wiggins
(916) 752-7623

VICE-PRESIDENT
Florence van Geem
(415) 271-5987

GENERAL APPLICATIONS
PROGRAMS

VICE-PRESIDENT
Abraham Silvers
(415) 855-2615

BIOSTATISTICAL
PROGRAMS

SECRETARY
Kelvin K. Lee
(415) 493-5000 x2181

TREASURER
Anna Bagniewska
(415) 855-5289

COUNCIL of CHAPTERS
Barbara Kamm
(415) 855-6162

REPRESENTATIVE
The San Joaquin Valley Chapter is planning a one-day meeting for all California ASA Chapters. The meeting will have the theme, "Statistics in California: Education, Applications and New Developments", and is tentatively scheduled for Friday, May 1, 1987 in Fresno. Our Chapter has been invited to participate. I feel this is a very interesting opportunity for us to share in a different activity – I hope to have more information for you next month about the meeting.

I feel we have a very exciting and challenging year ahead. My goals are to continue to strengthen the role of this Chapter in the community and serve the needs of all our members. I look forward to hearing from you with any suggestions you might have to help in the activities I have outlined. I hope also to see many of you at our various Chapter meetings this year.

Elizabeth King

Announcements

The San Francisco Bay Area Chapter of ASA is pleased to learn that one of its members, Professor David Blackwell of the University of California, Berkeley, was awarded the R. A. Fisher Award of the Committee of Presidents of Statistical Societies (COPSS) during the Joint Statistical Meetings in Chicago in August. In addition to an award of $1,000 and a plaque, the recipient is invited to deliver the Fisher Lecture. Professor Blackwell spoke on "Likelihood and Sufficiency".

Dr. Blackwell has been honored for distinguished contributions to the theory of probability and statistics, providing a rigorous foundation for applications of sequential analysis, statistical decision theory, game theory, dynamic programming, information theory, and Markov chains.

This chapter is proud to send congratulations to Professor Blackwell.
GENERAL APPLICATIONS PROGRAM

SPEAKER: Arlene Frazier  
Credit Risk Management  
Bank of America

TOPIC: "CREDIT AND BEHAVIOR SCORING"

Arlene Frazier will present an overview of statistical techniques in the area of credit and behavior scoring. Various applications will be discussed.

DATE: September 18, 1986 (Thursday)  
11:45 - 1:00 Luncheon  
1:00 - 2:00 Presentation

PLACE: World Affairs Center Building  
2nd Floor, Room A  
312 Sutter Street (near Grant Ave.)  
San Francisco, CA

An optional box lunch from Caravansary will be offered at $6.50 each. Those unable to join us for lunch are welcome to attend the presentation. Please contact Florence van Geem at (415) 271-5987 before Tuesday, September 16 if you are planning to attend the luncheon and/or the presentation.

BIOSTATISTICS PROGRAM

SPEAKER: Professor Alvin D. Wiggins  
University of California, Davis

TOPIC: "GENERALIZED RIDGE REGRESSION AND MEAN SQUARE ERROR"

DATE: September 25, 1986 (Thursday)  
3:30 - Coffee  
4:00 - Presentation

PLACE: Stanford Medical Center, Room X303  
3rd Floor

Professor Bill Brown has kindly offered to be the local host. Following the presentation, cocktails will be served at his home. Directions will be provided at the meeting.

If you would like a map to the meeting site, please call Kelvin Lee at (415) 493-5000, ext. 2181.
Evening Presentation

"SEQUENTIAL EXPERIMENTATION STRATEGY"

DATE: Monday, October 27, 1986
TIME: Dinner 6:00pm
Presentation 7:00pm
PLACE: ROLM Cafeteria (See map on back)

Sequential experimentation has significant economic advantages over large single experiments. Based on experimenter-selected risks of erroneous conclusions, a strategy for using accumulated data to determine when to stop experimentation is presented. Methods of determining acceptable experimental risks are discussed and several examples are presented.

COST: Free, no reservations required.

WHO SHOULD ATTEND: Engineers, Engineering Managers, Researchers, Statisticians, and others involved with data analysis.

CONTACTS:
- Fred Khorsanl (Intel), (408) 496-9998
- Florence Van Geem (American Statistical Assoc.), (415) 271-5987
- Diane Schreiner (ROLM), (408) 492-4537
- Bob Elo (IEEE, Reliability), (408) 496-4059

"KEYS TO GOOD EXPERIMENTATION"

DATE: Tuesday, October 28, 1986
TIME: 8:30am - 5:30pm
PLACE: SYNTEx (See map on back)

This one day seminar covers the basic, but important aspects of experimentation that are often overlooked, resulting in misleading data and erroneous conclusions. Through several examples and using SAS the seminar covers a simple experiment and model, reasons for randomization and replication, nonreplicated designs, treatment and design structures, the total experimental designs, common treatment structures, repeated measure designs, and choice of sample size.

COST: $100.00 (includes handouts and lunch), registration is limited.

*Dr. Milliken has extensive experience in statistical consulting in diverse fields. A partial list of his clients include: Upjohn, Searle, Los Alamos Science Lab, Mobay Chemical, Oak Ridge National, St. Regis, Radium, CH2M Hill, Great Western Sugar, Kelloggs. He has authored more than 130 technical papers. He is also Professor and Head, Department of Statistics, Kansas State University.