



# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

JAN 24, 1991 THURSDAY      Gordon Newell  
"Queueing Theory: A Queue with Two Different Service Rates"

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### JOINT GENERAL APPLICATIONS AND BIostatISTICS PROGRAM

**SPEAKER:** Gordon F. Newell, Ph.D.,  
School of Engineering  
University of California, Berkeley

**TOPIC:** "QUEUEING THEORY: A QUEUE WITH TWO DIFFERENT SERVICE RATES"

Dr. Newell will speak on problems from queues with two different service rates. This problem occurs, among other places, in telephone queues where messages can either be voice or data.

Dr. Newell received his doctorate in physics from Illinois University in 1950 and has been a professor of Transportation Engineering at UC Berkeley since 1966. He was a Sloan Research Fellow (1956-59) and is a Fulbright Fellow (1963 - present). He wrote Applications of Queueing Theory (Chapman & Hall, 2nd Edition, 1983).

**DATE:** Jan 24, 1991 (Thursday)  
3:30 - 4:00 Coffee  
4:00 Presentation

**PLACE:** Pacific Bell Administration Center  
2600 Camino Ramon  
San Ramon, CA 94583  
Toyon Room (Room number 2-CN-050)

**DIRECTIONS:** From I-680 in San Ramon, take the Bollinger Canyon exit and turn east onto Bollinger Canyon Road. At the second traffic light, turn left onto Camino Canyon and proceed to the Main Entrance. Park in the visitors parking lot. Please enter and register at the main lobby.

We will be taking Gordon to dinner after the meeting and you are invited to join us.

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

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Kelvin K. Lee  
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**ASQC TASK GROUP REP.**  
Fred Khorasani  
(408) 779-0035

**ASQC STATISTICAL TASK GROUP**  
Curtis Engelhard  
(408) 765-9325

## SF Bay Area Chapter Business

### ADDRESS CHANGES/DUES:

Changes of address should be sent to the chapter treasurer, Lenny Ayyangar 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 date that your dues **expires** (This is a revision of previous printed date conventions.) If you are overdue please send \$8 to:

Lenny Ayyangar  
Syntex Research  
3401 Hillview Avenue  
P.O. Box 10850  
Palo Alto, CA 94303

### EMPLOYMENT OPPORTUNITIES

#### 1. STATISTICIAN, DRUG STUDIES UNIT, SCHOOL OF PHARMACY, UCSF

**RESPONSIBILITIES:** Entry and analysis of clinical drug trial data, computer system's administration and development and maintenance of the Research Subject's database. Data analyses typically involve pharmacodynamic and/or statistical evaluations and occasionally simulations.

**REQUIREMENTS:** M.S. in biostatistics with a minimum 1-2 years experience. Proficiency in data analysis using standard statistical and graphics packages (e.g. SAS, S-Plus) and programming (e.f. FORTRAN). Familiarity with specialized programs (e.g. PC NONLIN). Ability to maintain computers having UNIX, MSDOS and Macintosh Operating Systems and to develop a database (using dBASE). Ability to analyze and solve problems and work well both independently and as a team member.

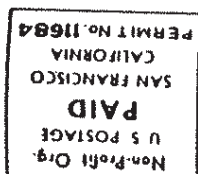
**SEND RESUME:** Crystal Morris, Personnel Department, UCSF, 1350 Seventh Avenue, San Francisco, CA 94143. ( Reference Job #VM-85411).

MUSARU HONDA  
FUCH-SHI  
TOKYO 183  
JAPAN  
Exp: 11/15/1990

Berkeley, CA 94708

921 Regal Rd.

AMERICAN STATISTICAL ASSOCIATION  
SAN FRANCISCO BAY AREA CHAPTER





# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

NOV 28, 1990 WEDNESDAY Dan Weiner  
"Practical Experimental Design Considerations for  
Pharmacokinetics"

DEC 13, 1990 THURSDAY Panel Discussion and Holiday Party  
"Bay Area Statistics in the 1990s: How Are We Doing,  
Where Are We Going?"

JAN 24, 1991 THURSDAY Gordon Newall  
"Practical Applications of Queueing Theory"

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### PRESIDENT'S MESSAGE

The Chapter would like to congratulate one of its members, Professor Jessica Utts, at the University of California at Davis. At the August meeting in Anaheim, she was elected as a Fellow of the American Statistical Association for contributions to research methodology in psychology and in robustness techniques, for excellence in teaching and consulting, and for outstanding service to the profession. Well done !

The ASA Committee on Fellows request the help of all statisticians in the nomination of new Fellows. If you wish to make a nomination, contact me for a nomination packet.

Nominations for national committees -- The national office of the ASA has asked for nominees for committee appointments. A list of committees appears in the January issue of Amstat News. If you are interested in serving on any national committee or on a specific committee, or would like to nominate someone else, please contact me. I will be glad to send the names to the national office, although there is no guarantee of ultimate appointment.

The Chapter officers are heartened by the higher than average turnout at the first three activities of the school year. We would like to continue seeing the "old faces" and hopefully many new ones.

Since this will be the last newsletter in 1990, the Chapter officers would like to take this opportunity to wish you and your loved ones a joyous holiday season and a happy and health 1991.

Kelvin K. Lee  
Department of Veterans Affairs

JNSEL OF CHAPTERS REP.  
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(415) 688-7264

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(408) 765-9325

ASOC STATISTICAL TASK GROUP  
Curtis Engelhard  
(408) 765-9325

## **BIOSTATISTICS PROGRAM**

**SPEAKER:** Dan Weiner, Ph.D,  
Director, Biometry  
Syntex Research

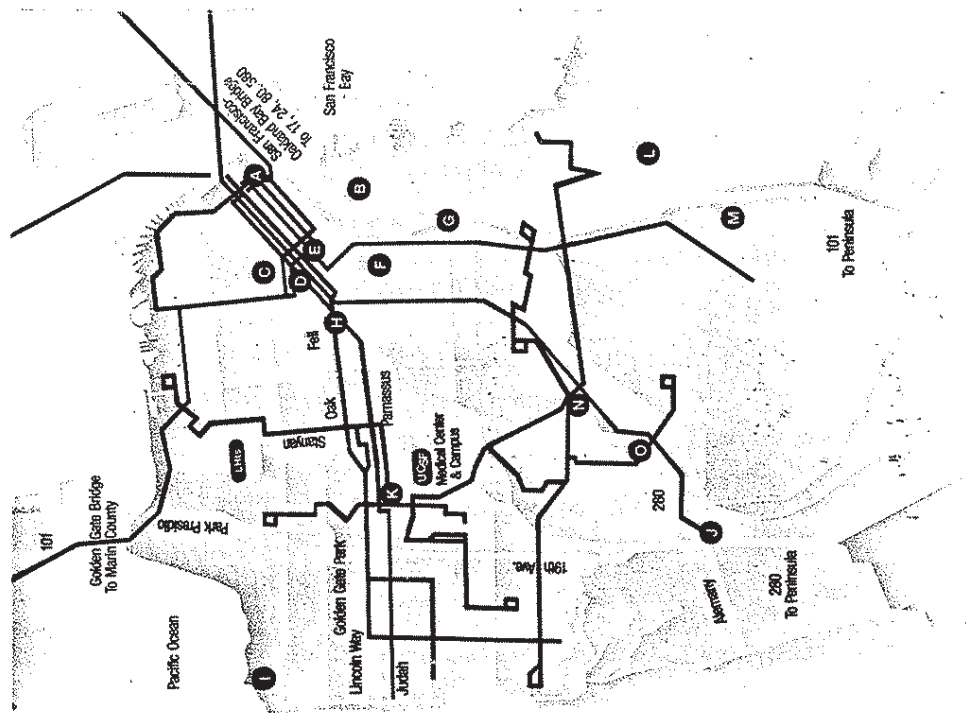
**TOPIC:** "Practical Experimental Design Considerations for  
Pharmacokinetics"

This seminar will provide an overview of methods proposed for estimating sampling times for kinetic experiments. "Optimal" methods will be discussed., as well as sensitivity analysis. In addition, a new approach will be presented which is useful for comparing different designs, and for determining the impact of adding or removing collection times. Also discussed will be a strategy for determining sampling times when one is primarily interested in estimation of some function of the model parameters (such as area under the curve) rather than the model parameters themselves.

**DATE:** Nov 28, 1990 (Wednesday)  
3:30 - 4:00 Coffee  
4:00 Presentation

**PLACE:** University of California, San Francisco  
Medical Sciences Room 214  
513 Parnassus  
San Francisco

**PARKING:** Public parking is available in the Millberry Union 500 Parnassus between Third Avenue and Hillway Avenue. See map below.



**JOINT BIOSTATISTICS and GENERAL APPLICATIONS PROGRAM**

**PANEL DISCUSSION AND HOLIDAY PARTY**

**TOPIC:** "Bay Area Statistics in the 1990s. How Are We Doing and Where Are We Going?"

**CHAIRMAN:** Professor Terry Speed, Department of Statistics, UCB

**PANELISTS:** Dr. Abraham Silvers, EPRI  
Dr. Sidney J. Yakowitz, Univ. of Arizona  
Loren Schoof, Pacific Bell  
Dr. Dean Fearn, Cal State Hayward

**DATE:** December 13, 1990 (Thursday)  
3:30 - 4:00 Coffee  
4:00 Presentation

**PLACE:** University of California, Berkeley  
Room 1011 Evans Hall

Following the panel discussion, there will be a cocktail party at the home of Professor Michael Tarter, 2717 Benvenue, Berkeley. Directions will be provided at the panel discussion. Please contact Mike Tarter at 642-4601 if you will attend.

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**APPLICANT:** M.Sc. with 6 years experience seeks full or part time employment as statistician or programmer. Experience in Speech recognition, image processing, network management. Familiar with BMDP, SPSS, Unix, C, Pascal, FORTRAN, VMS, TCP/IP. Contact Vivien (415)777-3255.

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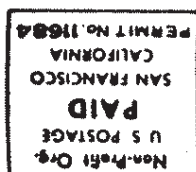
Lenny Ayyangar  
Syntex Research  
3401 Hillview Avenue  
P.O. Box 10850  
Palo Alto, CA 94303

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### ANNOUNCEMENTS:

Complete your collection of JASA. A set of Journal of the American Statistical Association, 1971-1981 is available. Contact Lucy Klein at (415) 344-9859 in the morning hours.

DR. ROSE M. RAY  
921 REGAL ROAD  
BERKELEY, CA 94708  
Exp: 04/15/1991



SAN FRANCISCO BAY AREA CHAPTER  
American Statistical Association







# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

FEB 28, 1991 THURSDAY      Howard R. Hogan  
"The Design of the 1990 Post-Enumeration Survey"

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### JOINT GENERAL APPLICATIONS AND BIostatISTICS PROGRAM

**SPEAKER:** Howard R. Hogan, Ph.D,  
Chief, Undercount Research Staff  
Statistical research Division  
Bureau of the Census, Washington D.C.

**TOPIC:** "THE DESIGN OF THE 1990 POST ENUMERATION-SURVEY"

The question of census undercount has recently gained considerable attention. The 1990 Post-Enumeration Survey (PES) constitute the major vehicle for measuring coverage by area on the 1990 Decennial Census. Its results may be used to adjust the Census enumeration. The background of the survey, the sampling plan, the methods used to measure the Census omissions and Census erroneous enumerations will be discussed. The treatment of nonresponse, the use of dual system estimation to estimate the total population by poststrata, and the use of these estimates to calculate adjusted census data will also be presented.

**DATE:** Feb 28, 1991 (Thursday)  
3:30 - 4:00 Coffee  
4:00 Presentation

**PLACE:** Demography Conference Room  
2232 Piedmont Avenue  
University of California, Berkeley

Refreshments will be in room 101A.  
Presentation in room 100.

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Fred Khorasani  
(408) 779-0035

ASQC STATISTICAL TASK GROUP  
Curtis Engelhard  
(408) 765-9325

## **EMPLOYMENT OPPORTUNITIES**

### **1. BIostatistician I/II, Syntex, Palo Alto**

**RESPONSIBILITIES:** Design Phase IV clinical trials. Plan, coordinate and generates statistical analyses and reports. interact with statisticians, medical personnel, dataprocessing and marketing staff.

**REQUIREMENTS:** Ph.D. in Statistics or Biostatistics (or MS/MA with 3+ years experience in medical field) for Biostatistician I. Ph.D. with 3+ years experience (or MS/MA with 5+ years experience) for Biostatistician II. Excellent verbal and written communication skills, broad background in applied parametric and nonparametric statistics, and SAS programming skill are required. Should have good organization, problem solving and interpersonal skills.

### **2. BIostatistician, VA Medical Center, Palo Alto**

**RESPONSIBILITIES:** Consult with medical investigators in the design, implementation and analysis of multi-center clinical trials.

**REQUIREMENTS:** Ph.D. in Statistics or Biostatistics with some experience in medical consulting (or MS/MA with 3-4 years experience in multi-center clinical trials.) U.S. citizenship required.

**SEND RESUME:** Dr. Kenneth E. James, CPSCC (151-K), VA Medical Center, 3801 Miranda Avenue, Palo Alto, CA 94304; or call (415) 493-5000(x2181) or (415) 852-3252.

### **3. STATISTICAL PROGRAMMER, VA Medical Center, Palo Alto**

**RESPONSIBILITIES:** Data management and statistical analysis of multi-center clinical trials. Develop statistical programs as well as general programs for database maintenance, data editing, storage and retrieval. Assist in the specification of appropriate statistical methods for data analysis. Prepare tables for statistical reports. Aid in the development and design of forms. Provide general technical support for the microcomputer.

**REQUIREMENTS:** Masters degrees in statistics or biostatistics or related field. Experience with FORTRAN, SAS and BMDP essential. Pl/1, IBM mainframe and LAN experience desirable. U.S. citizenship required.

**SEND RESUME:** Dr. Kenneth E. James, CPSCC (151-K), VA Medical Center, 3801 Miranda Avenue, Palo Alto, CA 94304; or call (415) 493-5000(x2181) or (415) 852-3252.

### **4. STATISTICAL ASSISTANT, VA Medical Center, Palo Alto**

**RESPONSIBILITIES:** Collect and review clinical trails medical data collection forms.

**REQUIREMENTS:** Biological, medical and/or research background helpful. Good communication skills and team player. Salary \$21,023/yr.

**SEND RESUME:** Dr. Kenneth E. James, CPSCC (151-K), VA Medical Center, 3801 Miranda Avenue, Palo Alto, CA 94304; or call (415) 493-5000(x2181) or (415)



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3401 Hillview Avenue  
P.O. Box 10850  
Palo Alto, CA 94303

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### APPLICANT:

**POSITION DESIRED:** Mathematical Statistician

**AVAILABLE:** Immediately

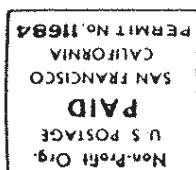
**EXPERIENCE:** Eleven years (5 as a manager) at the U.S. Census Bureau.

Experience in survey design, estimation procedures, technical report writing, oral presentations, and methods for data collection, processing, and statistical analysis. familiar with FORTRAN programming and statistical packages (SAS, Minitab, SPSS, and BMDP). Versed in Deming's management philosophy.

**EDUCATION:** M.A. in Applied Math/Statistics, 1978, U.C. Santa Barbara

**CONTACT:** Bob Edson (415) 755-8462 after 6:30 p.m.

San Francisco Bay Area Chapter  
American Statistical Association





# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

MAY 9, 1991 THURSDAY Mark Seedall  
"Natural Gas Supply Planning"

MAY 22, 1991 WEDNESDAY Lydia Gans  
"Statistics in Vietnam Today"

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### JOINT GENERAL APPLICATIONS AND BIostatISTICS PROGRAM

**SPEAKER:** Mr. Mark Seedall  
Director of Fuels Policy Planning  
Pacific Gas and Electric Company

**TOPIC:** "NATURAL GAS SUPPLY PLANNING"

Mr. Seedall will present a general discussion on natural gas supply questions in California and North America. He will also discuss supply modeling efforts, both successful and unsuccessful.

**DATE:** May 9, 1991 (Thursday )  
noon Lunch  
12:30-1:30 Presentation

**PLACE:** Iron Horse Restaurant  
19 Maiden Lane  
San Francisco

**RSVP:** Please call David Kimble (415) 823-9017, by May 7, for reservations, and choice of entree. Choices are: 1. Grilled Salmon, 2. Chicken with Marsala Sauce, 3. Cannelloni. (\$19.00 including salad, coffee, dessert, tax & tip)

#### UNSEL OF CHAPTERS REP.

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#### SECRETARY

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#### ASQC TASK GROUP REP.

Fred Knapp  
(415) 823-9017

#### ASQC STATISTICAL TASK GROUP

Curtis Engelhard  
(408) 765-9325

## EMPLOYMENT OPPORTUNITIES

### 1. RESEARCH STATISTICIAN, Chevron Research, Richmond

**RESPONSIBILITIES:** Consult with researchers and collaborate in projects relating to lubricants, fuels, and additives development.

**REQUIREMENTS:** Masters degree in statistics or biostatistics and one to three years experience. Excellent communication skills are required. Experience with linear models, experimental design, automotive testing, chemical testing, SAS, /CMS, DOS and other programming languages, and database management are desirable.

**SEND RESUME:** Chevron Research and Technology Company, Human Resources Group, P.O. Box 1627 Richmond, CA 94302-0627.

### 2. BIostatISTICS SUPERVISOR and INTERMEDIATE LEVEL BIostatISTICIAN, Syva, Palo Alto

**RESPONSIBILITIES:** Syva, the diagnostics subsidiary of Syntex is looking for innovative, dynamic biostatisticians seeking new challenges. Candidates for both the intermediate level and the supervisory position must demonstrate broad based, in-depth understanding of os statistical experimental designs and analyses. These positions call for the ability to apply relevant statistical concepts and the ability to communicate these concepts to non statisticians. Excellent listening, written and oral presentation skills are required.

**REQUIREMENTS:** The senior level position requires a Ph.D. in statistics, plus related experience in pharmaceutical or medical diagnostic programs. Candidates will have proven leadership skills, and experience with clinical trials, PMA's and PLA's. The intermediate level position requires an M.S. in statistics an three years related experience.

**SEND RESUME:** Syva Human Resources, Dept EP, MS 1-105, P.O. Box 10058, Palo Alto CA 94303, FAX (415) 857-1374.

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**JOINT GENERAL APPLICATIONS AND BIostatISTICS PROGRAM**

**SPEAKER:** Dr. Lydia Gans  
San Francisco State University

**TOPIC**      **TOPIC:**      "STATISTICS IN VIETNAM TODAY"

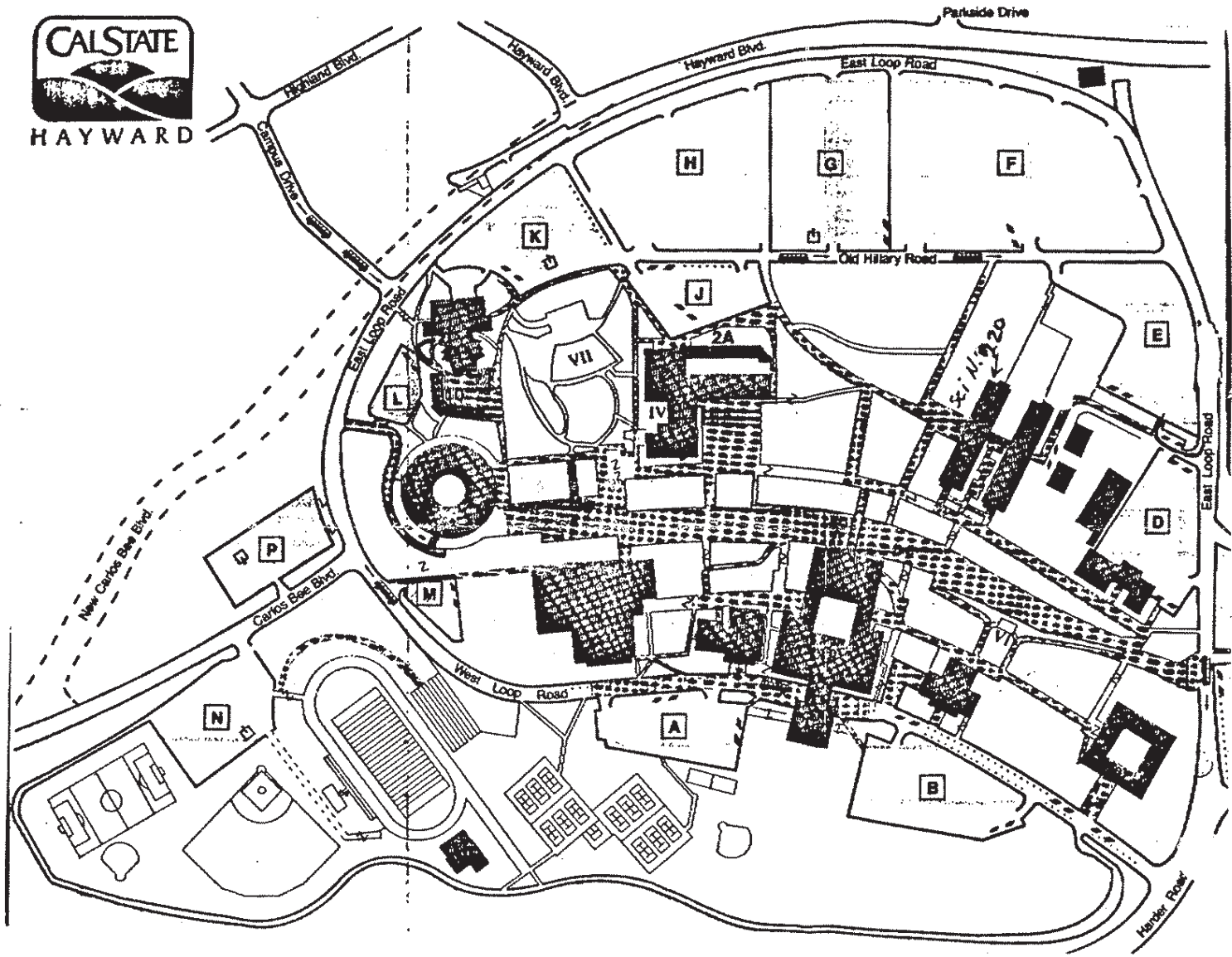
Dr. Lydia Gans will speak on her 1991 visit as lecturer to the Hanoi Mathematical Institute. She will describe how statistical methods are applied in Vietnam. She met with people in the universities and science centers that use statistics, and toured Hanoi and Ho Chi Minh City. Photographs of her visit will be shown.

Dr. Gans taught at California Polytechnic Institute at Pomona for 20 years. She organized the Statistical section of their Mathematics Department. After retiring from Cal Poly, she has been teaching at San Francisco State and consulting in public health and disability applications. She received her Ph.D. in applied statistics from UC Riverside in 1978.

**DATE:**      May 22, 1991 (Wednesday)  
                 3:30                      Coffee  
                 4:00                      Presentation

**PLACE:**      Department of Statistics  
                 California State University at Hayward  
                 North Science Building, room 220

**DIRECTIONS:** From I-880 in Hayward, take the Jackson Street exit east. Turn right onto Harder Rd. Continue up Harder to the campus and park in pay lot G. From the Peninsula, take the San Mateo Bridge into Hayward. This highway becomes Jackson street. The pay lot fee is \$1.50 in quarters only.



921 Regal Road  
Berkeley, CA 94708

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# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

MAR 14, 1991 THURSDAY      Ian Abramson  
"Longitudinal Data and Growth Curves"

APR 11, 1991 THURSDAY      Mike Locke and Christina Mellin  
"Object Oriented Statistics in the Frequency  
Domain - Environmental Applications"

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### JOINT GENERAL APPLICATIONS AND BIostatISTICS PROGRAM

**SPEAKER:** Ian Abramson  
University of California, San Diego.

**TOPIC:** "LONGITUDINAL DATA AND GROWTH CURVES - NEW ANGLES ON OLD MODELS"

When a large cohort is followed in time, even linear modeling of responses may be difficult, as some ( but not all) of the parameters are naturally subject specific. The mixed model is one solution to this difficulty, but it has its own drawbacks. It is necessary to postulate a parametric model (usually Normal) for the random effects. The resulting nonlinear likelihood function is often troublesome.

Professor Abramson will discuss an iterative algorithm ( coded in S), which will solve very large least squares problems as if all effects were fixed, and thus allows conditional inference given the random effects.

Since the inference is conditional, there is no tie to a specific random effect model. This method may lose power in some situations. An interesting archetypical problem, for which there is no power loss for large data sets, will be presented.

Floating effects are random effects, which we do not want to model stochastically. There may be some asymptotic setting for which the empirical distribution of these floating effects converges weakly. Is it possible to reconstruct this limiting distribution from noisy point estimates of the floating effects ? Are there shrinkage schemes which produce good simultaneous estimates ? Empirical Bayes and other approaches will be discussed.

Illustrations will be drawn from the San Diego Family Health Project ( a behavioral study) and from a simulated experiment in tumor growth.

**DATE:** Mar 14, 1991 (Thursday)  
4:00 - 4:30 Coffee ( 479 Kerr Hall)  
4:30 Presentation (1322 Storer Hall)

**PLACE:** University of California  
Davis, CA

Refreshments will be in room 479 Kerr Hall  
Presentation in room 1322 Storer Hall

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## **EMPLOYMENT OPPORTUNITIES**

### **1. BIostatistician I/II, Syntex, Palo Alto**

**RESPONSIBILITIES:** Design Phase IV clinical trials. Plan, coordinate and generates statistical analyses and reports. interact with statisticians, medical personnel, data processing and marketing staff.

**REQUIREMENTS:** Ph.D. in Statistics or Biostatistics (or MS/MA with 3+ years experience in medical field) for Biostatistician I. Ph.D. with 3+ years experience (or MS/MA with 5+ years experience) for Biostatistician II. Excellent verbal and written communication skills, broad background in applied parametric and nonparametric statistics, and SAS programming skill are required. Should have good organizational, problem solving and interpersonal skills.

**SEND RESUME:** Roxie Naes, Senior Employment Representative, Staffing Department, L-1108, Syntex LABs, 3401 Hillview Ave, Palo Alto, CA 94303 or FAX to Roxie Naes (415) 354-2640. or call Ling-Ling Tsao at (415) 855-6532 for additional information.

### **2. STATISTICIAN, Kaiser Foundation Health Plan, Oakland**

**RESPONSIBILITIES:** Conduct health care utilization and economic studies in the Medical Economics and Statistics Department of Kaiser Permanente's corporate offices. Provide technical assistance and training in the area of : forecasting, actuarial, utilization and economic studies to Permanente Regional staff nation wide. Some travel is required.

**REQUIREMENTS:** Masters degree in statistics, economics or quantitative social science discipline and 3-5 years experience with quantitative analysis of applied research. Excellent written communication skills and proficiency with statistical analysis software required. Experience with econometric software preferred.

**SEND RESUME:** Kaiser Foundation Health Plan, Inc. One Kaiser Plaza, Room 2602. Oakland, CA 94612. AA/EEO Employer.

### **4. STATISTICAL CONSULTANT**

**RESPONSIBILITIES:** Advise and/or perform demographic direct mail respondent and targeting analyses - some familiarity with software options for direct mail companies required.

**CONTACT:** Mr. Kennedy (415) 326-4017

## SF Bay Area Chapter Business

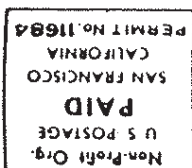
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SAN FRANCISCO BAY AREA CHAPTER  
American Statistical Association





# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

September 26, 1991 Thursday Mark Seedall

"Natural Gas Supply Planning"

October 23, 1991 Wednesday Wes Johnson:

"Group Screening with Quality Control"

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### JOINT GENERAL APPLICATIONS AND BIostatISTICS MEETING

**Speaker:** Mr. Mark Seedall

Director of Fuels Policy Planning

Pacific Gas and Electric Company

**Topic:** "Natural Gas Supply Planning"

Mr. Seedall will present a general discussion of natural gas supply question in California and North America. He will also discuss supply modeling efforts, both successful and unsuccessful.

**Date:** September 26, 1991 (Thursday)

**Time:** 3:30 PM Refreshments)  
4:00 to 5:00 PM (Talk)

**Place:** Room 404  
Golden Gate University  
536 Mission Street  
San Francisco, Ca.

**RSVP:** Dave Kimble at (415)-823-9017 on or before September 23rd.

**COUNSEL OF CHAPTERS REP.**

Anthony D. Thrall  
(415) 855-2627

**PRESIDENT**

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**PRESIDENT-ELECT**

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GENERAL APPLICATIONS PROGRAMS**

Dave Kimble  
(510) 823-9017

**VICE PRESIDENT  
BIostatistical PROGRAMS**

Rose Ray  
(415) 688-7264

**TREASURER**  
Lenny Ayyanger  
(415) 852-3080

**SECRETARY**  
Loren School  
(510) 823-9020

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

**ASQC STATISTICAL TASK GROUP**  
Curtis Engelhard  
(408) 765-9325

## Employment Opportunities

### Statistician, Intel Corporation, Santa Clara.

**Responsibilities:** Consulting, teaching, and development of statistical procedures.

**Requirements:** MS or Ph. D. in statistics. Knowledge of experimental design and statistical process control. Experience in the semiconductor industry is desirable.

**Contact:** Curt Englehard  
Intel Corp. SC9-22  
2250 Mission College Blvd.  
Santa Clara, Ca. 95054  
(408)-765-9325



## Announcement for Comments

A Proposal to Create

A Board of Governors

for the

S. F. Bay Area Chapter

of the A. S. A.

The current officers have discussed forming a Chapter Board of Governors. The Board would be composed of past ASA chapter offices and would have several functions. These could include:

1. Arranging chapter short courses.
2. Arranging chapter annual retreats.
3. Selecting a service award recipient  
(Statistician of the Year).
4. Handling chapter publicity.
5. Forming a Statistical Ethics Support Committee. (To support statisticians in ethical conflict situations.)
6. Recommending potential fellows to ASA national.

The role of this committee was presented and discussed at the chapter's Annual Business Meeting on June 20th. A setup committee to draft an amendment to the chapter by-laws is being formed. Its members are: Liz King, Mike Tarter, and Dave Kimble.

If you have comments, questions or suggestions about a Board of Governors for the chapter, write to:

Dave Kimble

Vice-President General Applications

15931 Berkshire Drive

San Leandro, Ca. 94578-1410



# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### PRESIDENT'S MESSAGE

How quickly this year has passed. I have been deeply honored for the privilege to lead the chapter during the year., and I would like to publicly thank all of the other officers for their contributions and support. All of them have full-time jobs, and yet they were able and willing to find time from their busy professional and personal schedules to offer their services to the chapter. I am sure that there were sacrifices at times, and on behalf of the membership of the chapter, I would like to extend them our gratitude.

I would also like to say thanks to the several schools and companies which hosted the chapter meetings this school year: California State University at Hayward, Failure Analysis Associates, Pacific Bell, Stanford University, Syntex Corporation, UC-Berkeley, UC-Davis, and UC-San Francisco, and to convey our appreciation to the many individuals who handled the local arrangements.

Membership participation in the chapter activities was high at the beginning of the school year, but has decreased over time. I was gratified to meet several new members, but this did not happen often enough. I have tried to direct some energy at this chronic problem, but it will still be extant for my successor Dean Fearn.

I would like to close by sending best wishes to Dean for a successful and fulfilling year as the next chapter president.

Kelvin Lee  
Department of Veterans Affairs

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

PRESIDENT  
Kelvin K. Lee  
(415) 852-3253

PRESIDENT-ELECT  
Dean H. Fearn  
(415) 881-3435

VICE PRESIDENT  
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VICE PRESIDENT  
BIOSTATISTICAL PROGRAMS  
Mike Tarter  
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Curtis Engelhard  
(408) 765-9325

### CALENDAR

JUNE 20, 1991    THURSDAY    Terry Speed  
                                 "Some Statistical Problems Arising in  
                                 the Human Genome Project"  
                                 Followed by annual business meeting.

---

### ANNUAL BUSINESS MEETING AND ELECTION OF OFFICERS

Preceded by:

#### BUSINESS MEETING and JOINT GENERAL APPLICATIONS AND BIOSTATISTICS PROGRAM

**SPEAKER:**    Terry Speed  
                                 University of California, Berkeley

**TOPIC:**        "Some Statistical Problems Arising in the Human  
Genome Project"

The Human Genome Project is aimed at obtaining high resolution physical and genetic maps, and ultimately sequencing the entire human genome. In some ways, this project is like a huge industrial enterprise, carried out in many laboratories in the United States and beyond. Statistical ideas play a key role in many aspects of the project. Dr Speed will describe the Human Genome Project, the statistical issues and their relationship to the goals of the project.

**DATE:**        June 20, 1991        (Thursday)  
                                 3:30 - 4:00        Coffee  
                                 4:00                Presentation

**PLACE:**        Golden Gate University  
                                 536 Mission Street    Room 404  
                                 San Francisco, CA

**DIRECTIONS:** Take the Fremont street exit from the Bay Bridge.  
Or take BART, and use the Montgomery station. Golden Gate is  
very close to the AC transit SF-East Bay terminal.

## SF Bay Area Chapter Business

### **ELECTION OF OFFICERS:**

The following slate of officers for the 1990-1991 term have been proposed by the nominating committee.

<b>President -Elect</b>	Mike Tarter, Department of Environmental and Health Sciences University of California, Berkeley
<b>Vice President General Applications</b>	David Kimble, Statistician Pacific Telephone
<b>Vice President Biostatistics</b>	Rose Ray, Statistician Failure Analysis Assoc., Menlo Park
<b>Treasurer</b>	Lenny Ayyangar, Biostatistician Syntex, Palo Alto
<b><del>Secretary</del></b>	Loren Schoof, Statistician Pacific Telephone
<b>Council of Chapters Representative</b>	Anthony Thrall, Statistician Environmental Risk and Analysis Program EPRI, Palo Alto

These recommendations will be voted upon at the June Business meeting. The Chapter wished to thank the nominating committee, Florence VanGeem, Nick Jewell and Elizabeth King.

As is our custom, the President-Elect, Dean Fearn, Professor of Statistics, California State University at Hayward will succeed Kelvin Lee as President.

**DUES:** The executive Committee of the SF BAY Area Chapter is recommending that Article 3 (DUES) of the Chapter's bylaws be amended as follows:

1. The annual dues of regular and associate members be increased from \$8. to \$9.

2. The annual dues of student members be increased from \$2. to \$3.

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

The effective date, if passed, would be January 1, 1992.

The dues both for students and non students were raised last June, the first increase since 1983 and 1980 respectively. However, beginning this year the National Office of ASA is assessing a \$1. handling fee on chapters and sections for processing of the dues sent to the National Office. The recommended increase is merely to recover the loss of revenue due to the new assessment.



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

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# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

October 17, 1991 Thursday: Noel Cressie  
"Regional Mapping of Incidence Rates"

October 23, 1991 Wednesday Wesley Johnson  
"Cost Effective Screening with Quality Control"

---

### JOINT MEETING:

S. F. Bay Area Chapter of the American Statistical Association, Biostatistics Programs  
and the  
Stanford Workshop on Biostatistics

Speaker: Noel Cressie  
Professor of Statistics  
Iowa State University

Topic: "Regional Mapping of Incidence Rates"

Date: October 17, 1991. (Thursday)

Time: 3:30 P. M. (Coffee)  
4:00 P. M. (Talk)

Place: Medical Center  
Stanford University  
Room M106  
(See Map on Reverse Side)

Suppose that special data are aggregated into regions (usually for administrative purposes). In epidemiological studies the regional variable of interest is often a rate whose base varies from region to region. The numbers of sudden infant deaths per thousand live births in the counties of North Carolina are featured in this talk. A map of the counties coded or colored according to the values of the sudden-infant-death rate is misleading for the purposes of cluster detection and comparison with other time periods. This talk will illustrate how the map can be smoothed to take into account the special heteroscedasticity and dependence between regions.

C. COUNCIL OF CHAPTERS REP.  
Anthony D. Thrall  
(415) 855-2627

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Dean H. Fearn  
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PRESIDENT-ELECT  
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Fred Khorasani  
(408) 779-0035

ASQC STATISTICAL TASK GROUP  
Curtis Engelhard  
(408) 765-9325

**Abstract**  
(Continued)

The speaker will discuss one aspect of this problem. Suppose a simpler model calculates only monthly averages of ozone concentration, and that it does so with acceptable accuracy. Then with what accuracy can one infer the statistical distribution of the parameter of regulatory interest--the daily maximum one hour concentration?

**Chapter Business**

\*\*\*\*\*

**Nominations for New Officers:**

The nominating committee of Kelvin Lee (Chair), Mike Ardley, and Al Wiggins has proposed the following slate of officers for the 1992-1993 business year:

President-Elect	Dave Kimble Pacific Bell
Vice-President Biostatistical Programs	Rose Ray Failure Analysis Associates
Vice-President General Applications Programs	Loren Schoof Pacific Bell
Secretary	Ronald Thomas Dept. of Veteran Affairs
Treasurer	Lenny Ayyengar Token Technology, Inc.
Council of Chapters Representative (Jan. 1993 - Dec. 1995)	Anthony Thrall Electric Power Research Institute

These recommendations will be voted on at the business meeting. In accordance with with the constitution, the current President-Elect, Mike Tarter of the University of California at Berkeley, will succeed Dean Fearn as President.

The chapter wishes to extends its thanks to the members of the nominating committee for their efforts.

\*\*\*\*\*

## GENERAL APPLICATIONS MEETING

Speaker: Wesley Johnson  
University of California Davis

Topic: "Cost Effective Screening with Quality Control:  
Possible Applications to AIDS and Drug Testing"

Date: October 23, 1991 (Wednesday)

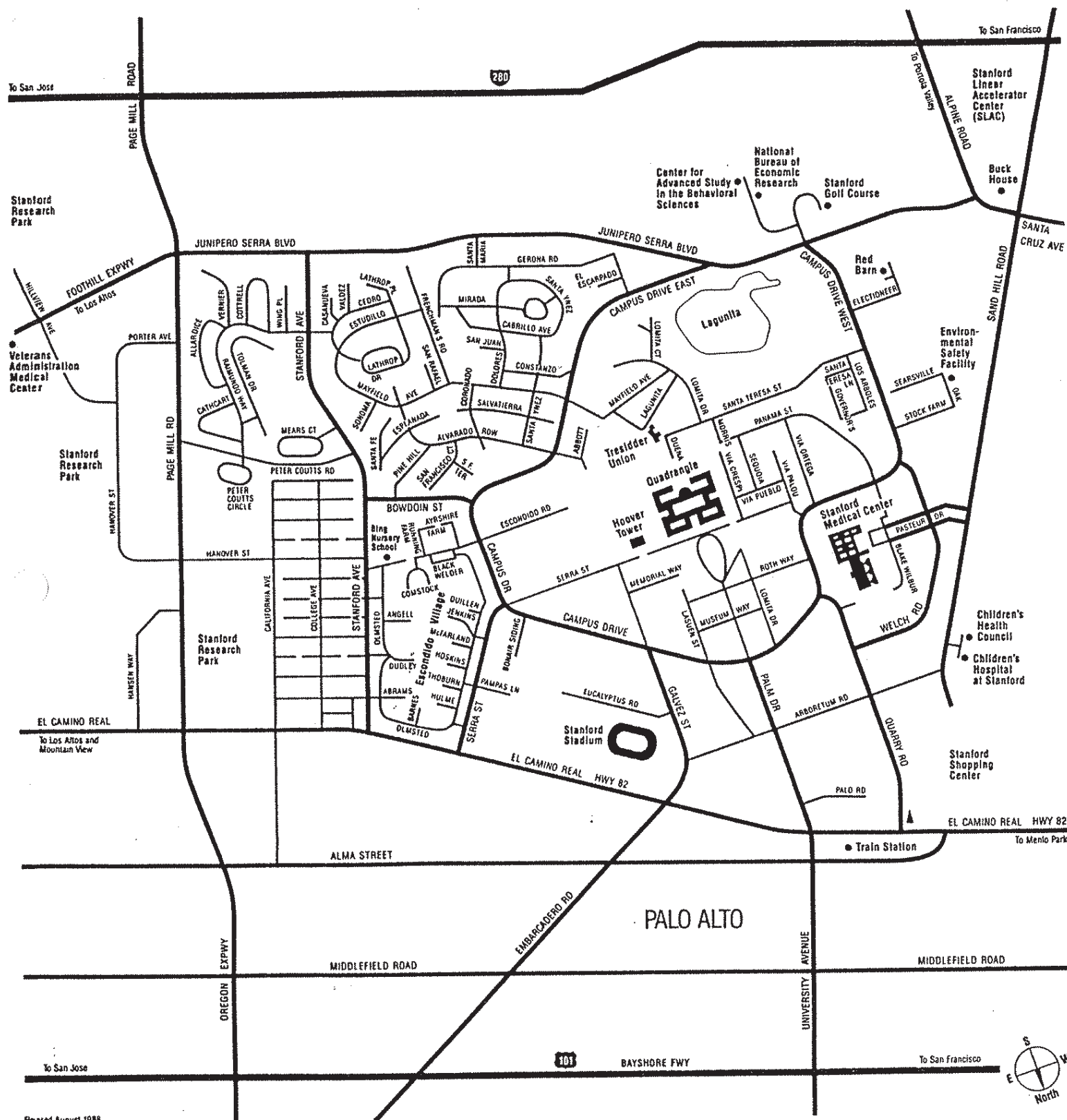
Time: 4:00 P. M. (Coffee)  
4:30 P. M. to 5:30 P. M. (talk)

Place: California State University Hayward  
South Science Building: Room 205

**Directions:** From I-880 in Hayward, take the take the Jackson Street exit east and turn right onto Harder Rd. Continue up Harder to the campus and park in pay lot G. From the peninsula, take the San Mateo-Hayward bridge to Hayward. This road becomes Jackson. Turn right onto Harder rd. and continue onto the campus. (See map on reverse side for campus locations.)

In this talk, we illustrate the applicability of group testing, introduced by Dorfman and now used in a variety of fields, for checking the accuracy of screening tests and for making inferences about the prevalence of infection in the transfusion pool, or the prevalence of drug users in the workplace. Currently, blood banks test each donation for HIV with a screening test (ELISA) and retest (confirm) only the positive units. We develop a quality control procedure by sampling a fraction  $f$  of the screened negatives and testing them in groups of size  $k$ . Even if the prevalence of infection is in the moderate range (.05-.20), the prevalence in the screened negatives is small enough to make group testing a cost effective way of estimating it. Our overall procedure has two stages. At stage one it allows for the possibility of grouping samples initially, for cost effectiveness; and at stage two it allows for the possibility of grouping a fraction of the negatives for retesting, for quality control. The second stage, of course, provides the added benefit of detecting errors that were made in the initial screen. Our results are potentially applicable in any screening situation, where the number of individuals screened is large, and provided positive units or groups are given confirmatory tests. This work is joint with Joe Gastwirth at GWU.

## VICINITY MAP



## Employment Opportunities

The V. A. Cooperative Studies Program Coordinating Center at the Palo Alto V. A. Medical Center (Menlo Park Division) has a vacancy for a biostatistician.

### Responsibilities Include:

- Consulting with medical investigators in the design, implementation and analysis of multi-center clinical trials in the Department of Veterans Affairs.
- Being the 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.

Salary Range: \$40,278 to \$47,890.

If interested, send C. V. to:

Kenneth E. James Ph. D.

CSPCC (151K)

VA Medical Center

3801 Miranda Ave.

Palo Alto, Ca. 94304

Telephone: (415)-852-3253

\*\*\*\*\*

Xoma Corporation, a leader in monoclonal antibody technology, has an opening for a biostatistician.

### Responsibilities:

- Design protocols, write analysis and program specifications.
- Interact with ~~reptistical~~ statistical programmers to develop program logic, statistical summaries and

### Requirements:

A Ph. D. in statistics or equivalent. Two or more years of related experience at least one of which was in a pharmaceutical environment. Proficiency in SAS. Excellent verbal and written communication skills.

Xoma offers a competitive salary and excellent benefits. (An Equal Opportunity Employer)

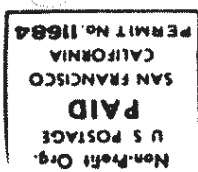
Send Resume and Salary History To;  
Xoma Corporation, Attn: Technical Recruiter  
2910 7th Street  
Berkeley, Ca. 94710



***If Your Local Membership Has Expired:***

There are two ways you can renew a local membership--directly through the chapter or indirectly through the national organization.

- 1) Local dues are \$9 for regular members and \$3 for students. Payments can be sent to the chapter treasurer, Lenny Ayyengar at the address shown on the bottom of the first page of this newsletter.
- 2) When you become (or renew) your ASA national membership, you have the option to pay your local dues through them. The national offices are at  
1429 Duke Street  
Alexandria, Va. 22314-3402  
Phone (703)-684-1221



SAN FRANCISCO BAY AREA CHAPTER  
American Statistical Association  
570 Jefferson Drive  
Palo Alto, Ca. 94303





# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

### CALENDAR

December 5, 1991: Panel Discussion on Student, the Future, and Statistics.

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Joint Meeting  
Biostatistics Programs  
General Applications Programs

Panel: Mike Ardley  
Consulting Statistician  
and  
Retired Manager, Pacific Telephone

Richard Barlow  
Professor of Statistics  
University of California, Berkeley

Florence Van Geim  
Statistician & Manager  
Kaiser-Permanente Hospitals  
Oakland

Ann Kalinowski  
Student & Doctoral Candidate  
University of California, Berkeley

Young-Yook Shin  
Student & Masters' Candidate  
California State University at Hayward

Topic: Students, The Future, and Statistics  
Place: University of California, Berkeley  
Evans Hall, Room 1011

Date: Thursday, December 5, 1991  
Time: 3:30 p.m. Refreshments  
4:00 pm to 5:00 pm Discussion  
Reception at Mike Tarter's House Afterward  
Maps provided at the meeting.

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(408) 779-0035

ASQC STATISTICAL TASK GROUP  
Curtis Engelhard  
(408) 765-9325

### Abstract

The last generation has seen a great expansion in statistical and applications. The availability of computer programs capable of performing complex statistical calculations has led to new uses for this field in business, pharmaceuticals, physical and social sciences. What will the next few years bring? What new developments? What new areas of application? How will today's students be affected? This panel of people with diverse backgrounds in statistics will explore these and other questions.

\*\*\*\*\*

### Employment Opportunities

Syva Co.

The Medical Diagnostics Subsidiary of Syntex Co.

Syva is seeking an experienced Biostatistician to participate in the design of experiments for Research and Development in all areas of the company. The Biostatistician will interact with other statisticians to maintain a consistent, company-wide approach, identify problems with current statistical methods, and develop, implement, and review procedures. As needed, the biostatistician will provide statistical training to the user community. He/she will support clinical trials.

#### Requirements:

M. S. in statistics or equivalent. Three years or more experience in a pharmaceutical or diagnostic environment. Familiarity with SAS or RS1. Excellent verbal and written communication skills.

If interested, send resume to:

Syva Co.

P. O. Box 10058 M.S. 1-105

Palo Alto, Ca. 94303

\*\*\*\*\*

Failure Analysis Associates, Inc.  
A National Engineering & Scientific Service Firm

The company is seeking a Biostatistician to develop quantitative health risk assessments for a variety of occupational, environmental, and consumer product sources. He/she will perform original epidemiological data analysis on national health databases; secondary analysis of published data from epidemiological, toxicological, and environmental studies; provide critical reviews of the design, analysis and interpretation of published research to integrate quantitatively and qualitatively results from multiple sources.

Requirements:

Ph. D. in Biostatistics or equivalent. 2-3 years of experience. Also, experience in design and analysis of epidemiological, toxicological, and environmental experiments is desirable.

To Apply, send or FAX resume to:

Vernetta R. Wilson

Reference #047

Failure Analysis Associates Inc.

P. O. Box 3015

Menlo Park, Ca. 94025

(415)-633-7021

(415)-328-3049 FAX

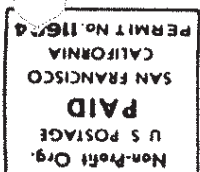
### Address Changes

If your newsletters have been going to the wrong location or are moving, please let us know so that we can change our records. You can write or phone

Lenny Ayyengar, Treasurer

or Loren Schoof, Secretary

Our addresses are listed on the front page of this newsletter.



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