



American Statistical Association

SAN FRANCISCO BAY AREA CHAPTER

SPECIAL EDITION OF THE NEWSLETTER

SUMMER 1987 Calendar

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

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

STATISTICS TASK GROUP OF THE ASOC - 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.

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**COUNCIL of CHAPTERS
REPRESENTATIVE**
Barbara Kamm
(415) 855-6163

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 Bailar 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:

	<u>General Applic</u>	<u>Joint</u>	<u>Biostat</u>
Sept	Arlene Frazier		Alvin Wiggins
Oct	George Milliken		Allen Izu
Nov		Dorit Carmelli	
Dec	Michael Orkin		
Jan			Alice Whittemore
Feb	Laurence George		Stuart Beal
March	Janet Williams		Anthony Thrall
April	Andrew Carey		Nicholas Jewell
May		Barbara Bailer	
June		Michael Tarter	

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 INTERNATIONALLY, IN THE U.S., AND LEGALLY
Caucus for Women in Statistics, ASA Comm. on Women in Stat., Bus., & Econ., Stat. Sec., Soc. Stat. Sec.

PROBABILITY AND ARTIFICIAL INTELLIGENCE IN MEDICINE
Bio. Sec., ENAR-WNAR, IMS, Biopharm. Sec., Soc. Stat. Sec.

STATISTICAL PACKAGES IN TIME SERIES
Bus. & Econ. Stat. Sec., Sec. on Phys. & Engr. Sci., Sec. on Stat. Comp.

ADMINISTRATIVE OFFICE OF THE COURTS: NEW STATISTICS
Soc. Stat. Sec.

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
IMS

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
Soc. Stat. Sec.

STATISTICAL COMPUTING: EDUCATION AND FUTURE
Stat. Comp. Sec., Sec. on Stat. Educ.
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
Bus. & Econ. Stat. Sec.

A RETROSPECTIVE LOOK AT THE TAGUCHI METHOD IN THE U.S.A.
Sec. on Phys. & Engr. Sci., ASA Comm. on Quality and Productivity

COMPUTER-AIDED EXPERIMENTAL DESIGN
Stat. Comp. Sec., Sec. on Phys. & Engr. Sci.

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
Biopharm. Sec.

APPLICATIONS OF RECENT METHODOLOGY IN BAYESIAN ANALYSIS OF DYNAMIC MODELS: THE KALMAN FILTER AND BEYOND*
Bus. & Econ. Stat. Sec., Bio. Sec., Sec. on Phys. & Engr. Sci.

STATISTICS FOR AN AGING SOCIETY
Soc. Stat. Sec.

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

NEW METHODOLOGY IN STATISTICAL GRAPHICS
Sec. on Stat. Graphics, Stat. Comp. Sec.

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
Stat. Div. of American Soc. for Quality Control, Sec. on Stat. Educ.

NON-STANDARD CLINICAL TRIALS—DESIGN AND ANALYSIS
Bio. Sec., ENAR-WNAR, Biopharm. Sec.

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
Sec. on Surv. Res. Meth., Soc. Stat. Sec.

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
Nat. Computer Graphics Assn., Sec. on Stat. Graphics

STATISTICAL ISSUES IN ESTIMATION OF PROGRESS AGAINST CANCER
ASA Comm. on Women in Stat., Caucus for Women in Stat., Bio. Sec., ENAR-WNAR, Biopharm. Sec.

STATISTICAL ANALYSIS OF BIOMEDICAL IMAGES: TECHNIQUES FOR SHAPE COMPARISONS

Bio. Sec., ENAR-WNAR, Sec. on Stat. Graphics

MAKING STATISTICS MORE EFFECTIVE IN SCHOOLS OF BUSINESS

Bus. & Econ. Stat. Sec., Sec. on Stat. Educ.

CALUSAL MODELS IN SOCIAL SCIENCE

Soc. Stat. Sec., Bio. Sec., ENAR-WNAR, Bus. & Econ. Stat. Sec.

SPECIAL INVITED PAPER

IMS

PROBABILISTIC ANALYSIS OF ALGORITHMS

IMS

NONPARAMETRIC INFERENCE FOR WEAKLY DEPENDENT RANDOM VARIABLES

IMS

4:00 p.m.-5:50 p.m.

APPLICATIONS OF STATISTICS IN METEOROLOGY AND CLIMATOLOGY

American Meteorological Soc., Sec. on Phys. & Engr. Sci.

EXACT INFERENCE FOR CATEGORICAL DATA

Bio. Sec., ENAR-WNAR

ACCOUNTING FOR ERRORS IN VARIABLES IN STATISTICAL INFERENCE

Bus. & Econ. Stat. Sec., Bio. Sec., ENAR-WNAR, Soc. Stat. Sec.

1990 CENSUS UNDERCOUNT AND ADJUSTMENT

Soc. Stat. Sec.

STATISTICAL TEXT PROCESSING

Stat. Comp. Sec.

COMPLIANCE AND COST CONTROL: TAXES, WELFARE, AND STUDENT LOANS

Sec. on Surv. Res. Meth.

SPECIAL INVITED PAPER

IMS

8:30 p.m.

PRESIDENTIAL ADDRESS

ASA

WEDNESDAY, AUGUST 19

8:30 a.m.-10:20 a.m.

GENERAL METHODOLOGY LECTURE II

ASA, ENAR-WNAR, IMS

STATISTICAL NEEDS AND IMPROVEMENT IN RISK ASSESSMENT

Bio. Sec., ENAR-WNAR, Biopharm. Sec.

DATA ANALYSIS PROBLEMS IN TIME SERIES ANALYSIS

Bus. & Econ. Stat. Sec.

APPLICATIONS OF RECENT METHODOLOGY IN INDUSTRIAL MIXTURE EXPERIMENTS*

Sec. on Phys. & Engr. Sci., ASA Comm. on Quality & Productivity

MICROS AND SUPERMICROS IN UNDERGRADUATE STATISTICAL EDUCATION

Sec. on Stat. Educ., Stat. Comp. Sec.

MANPOWER EXPERIMENTS: DESIGN, EXECUTION, ANALYSIS

Sec. on Surv. Res. Meth.

BOOTSTRAP AND COMPUTER INTENSIVE METHODS

IMS

MARKOV PROCESSES

IMS

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

JBES INVITED PAPER

ASA

APPLICATIONS OF RECENT METHODOLOGY IN BIOSTATISTICS*

Bio. Sec. ENAR-WNAR

DRUG APPROVAL IN MORE THAN ONE COUNTRY

Biopharm. Sec.

FIELD AND FOLLOW-UP STUDIES IN RELIABILITY

Sec. on Phys. & Engr. Sci., Bio. Sec., ENAR-WNAR, ASA Comm. on Quality & Productivity, IMS

INTEGRATED ENVIRONMENTS FOR STATISTICAL COMPUTING ON MICROCOMPUTERS

Stat. Comp. Sec.

COGNITIVE ASPECTS OF SURVEYS

Soc. Stat. Sec., Sec. on Surv. Res. Meth.

REITZ LECTURE

IMS

2:00 p.m.-3:50 p.m.

ANALYSIS OF MESSY DATA: A CASE STUDY

Bio. Sec., ENAR-WNAR, Stat. Comp. Sec., Sec. on Stat. Graphics

HETEROGENEITY AND CONSUMER CHOICE

Bus. & Econ. Stat. Sec., Subsec. on Stat. in Marketing

TOPICS IN EXPERIMENTAL DESIGN

Sec. on Phys. & Engr. Sci., Stat. Comp. Sec.

PANEL DISCUSSION—APPLICATIONS OF RECENT METHODOLOGY IN IMPROVING THE QUALITY OF BUSINESS STATISTICS COURSES: A PROCESS APPROACH*

Sec. on Stat. Educ., Mu Sigma Rho

QUALITY STATISTICS AND GRAPHICS FOR MANAGERS, ENGINEERS, AND SCIENTISTS

Sec. on Stat. Graphics, Bus. & Econ. Stat. Sec., Subsec. on Stat. in Marketing

IMPROVING THE QUALITY OF EDUCATION STATISTICS FOR POLICY PURPOSES

Sec. on Surv. Res. Meth.

GOODNESS-OF-FIT TESTS

IMS

PROBABILITY AND PHYSICS

IMS

4:00 p.m.-5:00 p.m.

COPSS PRESIDENTS' AWARD, R.A. FISHER AWARD AND LECTURE

ASA, ENAR-WNAR, IMS, SSC

THURSDAY, AUGUST 20

8:30 a.m.-10:20 a.m.

STATISTICS IN NUCLEAR RISK ANALYSIS

Soc. for Risk Anal., ASA Comm. on Nuclear Reg. Research, Sec. on Phys. & Engr. Sci.

APPLICATIONS OF RECENT METHODOLOGY IN BIOPHARMACEUTICAL STUDIES*

Biopharm. Sec.

RECENT IMPROVEMENTS AND FUTURE DEVELOPMENTS IN BUSINESS SURVEYS

Bus. & Econ. Stat. Sec., Sec. on Surv. Res. Meth.

EXPERT OPINION: STATISTICAL ISSUES

Soc. Stat. Sec., Sec. on Phys. & Engr. Sci.

MAKING THE COMPUTER DO MORE WORK

Stat. Comp. Sec.

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

Sec. on Stat. Educ., Subsec. on Teaching Stat. in the Hlth. Sci., Bio. Sec., ENAR-WNAR, Biopharm. Sec.

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 Comm. on Minorities in Stat., ASA Ad Hoc Comm. on Disabled in Statistics

ERRORS-IN-VARIABLES REGRESSION: BIOMETRIC AND ECONOMETRIC PERSPECTIVES

Bio. Sec., ENAR-WNAR, Bus. & Econ. Stat. Sec., IMS

MODELING EXPERT PROBLEM SOLVING

Sec. on Phys. & Engr. Sci., Soc. Stat. Sec.

APPLICATION OF RECENT METHODOLOGY IN STATISTICAL GRAPHS 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

1987 JOINT STATISTICAL MEETINGS

American Statistical Association
 Biometric Society, ENAR and WNAR
 Institute of Mathematical Statistics

August 17-20, 1987
 San Francisco, California

Please Print Legibly!

Name	Last	First	Initial
Badge for Spouse/Guest—print name	Last	First	Initial
(If the spouse/guest is a member who will attend technical sessions, that person must register and pay the appropriate fee.)			
Badge Information	Work Affiliation	City	State/Country
Mailing Address			

City	State/Province	Zip/Mail Code	Country
Major Employment Affiliation (check only one box)			
U <input type="checkbox"/> University or College (not Student)	S <input type="checkbox"/> Student		
B <input type="checkbox"/> Business & Industry	N <input type="checkbox"/> Nonprofit Organization		
G <input type="checkbox"/> Government (Federal, State, Local)	<input type="checkbox"/> Other		
Please check your membership(s) <input type="checkbox"/> ASA <input type="checkbox"/> ENAR <input type="checkbox"/> WNAR <input type="checkbox"/> IMS <input type="checkbox"/> None of these (see #2 or #3)			
Check one			

1. Preregistration Fee for Member (if received by July 22*) \$95

If you prepaid, you must attach the original receipt here; photocopies will not be accepted.

(Registration Fee after July 22 will be \$105)

2. Special introductory dues rate for new ASA Members only. Regular Member dues and registration (if received by July 22*) \$145
 (After July 22 Fee will be \$155)

3. Preregistration Fee for Nonmember (if received by July 22*) \$120
 (Registration Fee after July 22 will be \$130)

4. Student Fee (Full-time student only) \$30

5. Senior Member Fee (Retired persons over 65) \$45

*After July 22: Do not register by mail; pay at the Registration Desk in San Francisco.

Registration includes printed Program & Abstracts Book, admission to Sunday night Mixer (free beer and soft drinks), and Tuesday night Informal Party (cash bar) for registrant and spouse/guest.

Totals for:

Preregistration Fee (from above)	\$	_____
Luncheons (from reverse)	\$	_____
Tours (from reverse)	\$	_____
Proceedings (from reverse)	\$	_____
Total Enclosed	\$	_____

MAKE CHECK PAYABLE TO: JOINT STATISTICAL MEETINGS

If you will not be staying at a hotel shown on the housing form, please enter the San Francisco area phone number where you can be reached (____).

Return this form with remittance to: Joint Statistical Meetings, P.O. Box 1401, Alexandria, VA 22313. **Registration forms without payment will be returned.** This form and payment must be received in Alexandria by July 22, 1987, to qualify for preregistration fee. After this date, registrations by mail will not be accepted.

Cancellations: Cancellations received in writing by July 22 will be refunded, less \$10. After July 22 the registration fee, less \$15, will be refunded, but tickets for fee events will not be refunded. Requests for refunds will not be honored after September 15, 1987.

(See over to order fee events and proceedings)

FEE EVENTS
(See descriptions in brochure)

LUNCHEONS

	How Many?
1. Economic Outlook Luncheon—Mon., Aug. 17, 12:30 p.m.	(ECOL) \$21 × _____ = \$_____
Roundtable Luncheons: Indicate below your 1st, 2nd, 3rd and 4th choices from the listings in the brochure. Limit 10 persons per table.	
<input type="checkbox"/> Please check here if you are the Discussion Leader, and include ticket payment.	
2. Biopharmaceutical Section—Tues., Aug. 18, 12:30 p.m.	(BP) \$21 × _____ = \$_____
Nos. BP-1 through BP-9	1st 2nd 3rd 4th
3. Social Statistics Section—Tues., Aug. 18, 12:30 p.m.	(SS) \$21 × _____ = \$_____
Nos. SS-1 through SS-8	1st 2nd 3rd 4th
4. Section on Statistical Education—Tues., Aug. 18, 12:30 p.m.	(ED) \$21 × _____ = \$_____
Nos. ED-1 through ED-5	1st 2nd 3rd 4th
5. Business & Economic Statistics Section—Wed., Aug 19, 12:30 p.m.	(BE) \$21 × _____ = \$_____
Nos. BE-1 through BE-10	1st 2nd 3rd 4th
6. Statistical Computing Section—Wed., Aug. 19, 12:30 p.m.	(SC) \$21 × _____ = \$_____
Nos. SC-1 through SC-11	1st 2nd 3rd 4th
Total for Luncheons \$ _____	

TOURS

Children under 5, sitting on an adult lap, may travel free. Children 5-15 have special rates as noted.

	How Many?
1. Legendary Landmarks—Mon., Aug. 17, 1:00 p.m.-5 p.m.	
Adult (TR1A).....	\$16 × _____ = \$_____
Child (ages 5-15) (TR1C).....	\$15 × _____ = \$_____
2. Splendid Survivors—Tues., Aug. 18, 1:00 p.m.-5:00 p.m.	
Adult (TR2A).....	\$23 × _____ = \$_____
Child (ages 5-15) (TR2C).....	\$22 × _____ = \$_____
3. Legendary Landmarks—Wed., Aug. 19, 9:00 a.m.-1:00 p.m.	
Adult (TR3A).....	\$16 × _____ = \$_____
Child (ages 5-15) (TR3C).....	\$15 × _____ = \$_____
4. Marin Experience—Wed., Aug. 19, 9:00 a.m.-1:00 p.m.	
Adult (TR4A).....	\$16 × _____ = \$_____
Child (ages 5-15) (TR4C).....	\$15 × _____ = \$_____
5. Wine Country Excursion—Thurs, Aug. 20, 11:00 a.m.-6:00 p.m.	
Adult (TR5A).....	\$26 × _____ = \$_____
Total for Tours \$ _____	

ORDER YOUR 1987 PROCEEDINGS NOW AT PREPUBLICATION PRICES

To order the Proceedings volumes of papers and discussions presented at this Annual Meeting, indicate below and include payment (no billing, please). These special prices, which include postage, hold only for orders received by September 15, 1987. After September 15, selling prices will be higher. The volumes will be mailed early in 1988; please be sure your mailing address on this form is complete (including zip code).

	How Many?
Biopharmaceutical Proceedings*	(B) \$19 × _____ = \$_____
Business & Economic Statistics Proceedings	(C) \$28 × _____ = \$_____
Social Statistics Proceedings	(F) \$22 × _____ = \$_____
Statistical Computing Proceedings	(J) \$21 × _____ = \$_____
Statistical Education Proceedings	(H) \$16 × _____ = \$_____
Survey Research Methods Proceedings	(G) \$30 × _____ = \$_____
Statistical Graphics Proceedings	(K) \$12 × _____ = \$_____

Total for Proceedings \$ _____

*To include Biopharmaceutical Section papers presented at Midwest Workshop, Spring Regional Meeting, and Applied Statistics Workshop.

SAN FRANCISCO BAY AREA CHAPTER - SPECIAL QUESTIONNAIRE

1. Referring to the Newsletter, out of the 15 meetings scheduled, how many were you able to attend? _____ If you attended less than 4, state the pertinent reason(s) why you were unable to participate more.

2. First circle the area where your home is located. Second, record your preferences for meeting sites by coding 1, 2, and 3, with 1 for the most preferred site; enter "O" for any site(s) where you would NOT attend.

San Francisco
 Peninsula (Palo Alto and North)
 South Bay (e.g. San Jose, Santa Clara, Sunnyvale)
 East Bay (e.g. Berkeley, Hayward, Oakland, San Ramon)
 Davis
 Other (please specify) _____

3. Which meeting times do you prefer (Code 1, 2, and 3, with 1 for the most preferred time; enter "O" for any time at which you would NOT attend)?

Luncheon
 Late afternoon
 Evening
 Time doesn't matter

4. Which meetings have you liked best? What types of meetings don't you like?

5. Please suggest interesting topics and/or speakers for presentations which you would likely attend.

Name (Optional) _____

Please return to: Kelvin Lee, 515 Tiller Lane, Redwood City, CA 94065