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.
SPECIAL EDITION OF THE NEWSLETTER

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:

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

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

PROBABILITY AND ARTIFICIAL INTELLIGENCE IN MEDICINE

STATISTICAL 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 SSIP 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 Gov. Stat.

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

ECONOMETRIC MODELS OF COST AND PRODUCTION FUNCTIONS: SOME COMPARISONS
B Econ. Stat. Sec.

A PROSPECTIVE 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

SURVIVAL ANALYSIS
IMS

RECENT DEVELOPMENTS ON SEQUENTIAL ESTIMATION
IMS

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

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
Bio. Sec., ENAR-WNAR, Biopham. 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

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 20
6:30 a.m. – 10:20 a.m.

STATISTICS IN NUCLEAR RISK ANALYSIS

APPLICATIONS OF RECENT METHODOLOGY IN BIOPHARMACEUTICAL STUDIES*
Biopharm, 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 Applc 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) 722-7623

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

VICE-PRESIDENT
Abraham Silvers
(415) 855-2615

GENERAL APPLICATIONS PROGRAMS

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

TREASURER
Anna Isaghiweska
(415) 855-5285

COUNCIL of CHAPTERS REPRESENTATIVE
Barbara Kamm
(415) 855-8163
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

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.