The Southern California
STATISTICIAN

❖ Meeting Memo and Newsletter ❖

POMONA AREA MEETING

Who: Professor Dallas Johnson
      Department of Statistics
      Kansas State University

Topic: Multiplicative Interaction Models

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

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

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

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

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

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

THE TOPIC

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

THE SPEAKER

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

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LOS ANGELES AREA MEETING

WHO: Professor Dallas Johnson
      Department of Statistics
      Kansas State University

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

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

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

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

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

Reservations: Call any of the following by May 14:

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

THE TOPIC

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

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

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THE RAND CORPORATION - STATISTICS SEMINAR SERIES

May 16- Prof. Carl Morris, Center for Statistical
         Science, University of Texas, Austin, on " An Emp-
         irical Bayes Approach to Spatial Analysis."
June 13 - Prof. Ingram Olkin, Dept of Statistics, Stanford
          University, on Modeling Bivariate Data".
Location- Main Conference Rm, Rand Corp,1700 Main,Santa Monica
Refreshments: Will be served between 3.30 to 4 pm.
(Non-Rand people should go to the East Lobby across the
street from Santa Monica City Hall. Someone will help you.)
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Who: Dr. Janet Elashoff
               UCLA Center for Ulcer Research and
               Education (CURE)

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

When: Thursday, May 23, 1985

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

Where: UCLA Faculty Center

Price: $12.50 (Prime-rib dinner)

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

THE TOPIC

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

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

THE SPEAKER

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

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ALLADI VENKATESH
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SOUTHERN CALIFORNIA CHAPTER

American
Statistical
Association

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (AAAS)

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

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

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

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

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

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

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

          THE VISUAL DISPLAY OF QUANTITATIVE INFORMATION
                              by
                       Edward R. Tufte

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

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