

# The Southern California STATISTICIAN

- Meeting Memo and Newsletter

Vol 18 No 4

Southern California Chapter American Statistical Association

January 1981

### JANUARY MEETING ANNOUNCEMENT

LOS ANGELES

WHO: Girma Wolde-Tsadik

Associate Professor

Department of Community Medicine

Charles R. Drew

Postgraduate Medical School

TOPIC: "Sample Sizes in the Interval

Estimation of the Correlation

Coefficient"

WHEN: Thursday, January 22, 1981

6:00 P.M. - Social Hour

7:00 P.M. - Dinner 8:00 P.M. - Speaker

PRICE: \$9.25

\$6.00 for full-time students

DINNER RESERVATIONS: Please place your

reservations with Bruce Hodge at

(213) 741-4480 by Tuesday, Jan. 20.

WHERE: UC Irvine Gatepost Restaurant.

located in Gateway Commons. Free parking in Lot 4;

Metered parking in Lot 2.

DIRECTIONS: Take the San Diego Freeway

(405) to UC Irvine.

FROM LOS ANGELES: Exit on Jamboree Rd., turn right on Jamboree, proceed to Campus Drive (1 mile), turn left on Campus Drive (circled intersection

#1 on map):

FROM SAN DIEGO: Exit on University Drive, turn left on University Drive, proceed to Campus Drive (5 miles).

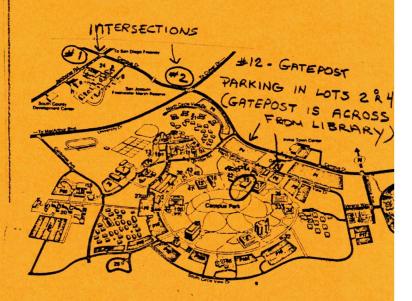
turn left on Campus Drive (circled intersection #2 on map):

REFER TO MAP FOR FURTHER DIRECTIONS.

### THE SPEAKER AND HIS TOPIC

GIRMA WOLDE-TSADIK is Associate Professor in the Department of Community Medicine, Charles R. Drew Postgraduate medical School, Los Angeles. He received his graduate training in Biostatistics at the University of California, Los Angeles, earning an M.S. and Ph.D degrees His publications have appeared in Biometrics, Technometrics, JASA and the American Statistician. His research work has been in the areas of Discriminant Analysis, Analysis of Variance, Correlation Analysis and Regional Health Information Systems.

Dr. Wolde-Tsadik's talk is directly related to his article appearing in the November issue of the American Statistician.



## VISITING LECTURERS IN STATISTICS

The Visiting Lecturer Program, sponsored by the Committee of Presidents of Statistical Societies, is designed to provide information to students and college faculty about the nature and scope of modern statistics as well as advice about careers and academic opportunities in statistics. Leading teachers, researchers and consultants are available to lecture on a wide variety of topics. A detailed brochure is available that explains how your department can participate in the program. Write to:

Barry C. Arnold, Chair, VLP Department of Statistics University of California, Riverside Riverside, CA 92521

A BRIEF ABSTRACT OF DR. WOLDE-TSADTK'S

One approach to the determination of required sample sizes is through the prespecification of the length of the confidence interval estimator of a parameter and the associated confidence level. Under bivariate normal assumptions, the length of the interval estimator of the correlation coefficient, p, depends on the observed sample correlation coefficient, r. The maximum length of the interval for a fixed sample size is achieved when r equals zero.

In the absence of any knowledge of the magnitudes of r and  $\rho$ , the minimum attainable precision can be derived and used to develop a formula for the required sample size. An approximation will also be introduced and shown to be as good as, if not better than, that of Fisher.

# EDITOR'S NOTICE

In an attempt to conserve Chapter resources, we are planning to send next month's Newsletter via 3rd class mail. Past experience with this mail service has resulted in a lot of variance in delivery time. So please mark the date of next month's meeting on your calendar NOW:

WHEN: February 26,1981 PLACE: UC Riverside

If you receive your February Newsletter later than the Friday before the Chapter meeting (Feb. 20th), please let me know so we can plan for future mailings. Write to: Pat Grantham

5612 Verano Place Irvine, CA 92715

Or call: (714) 955-3489

### CHAPTER OFFICERS

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SOUTHERN CALIFORNIA CHAPTER

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