



# The Southern California STATISTICIAN

❖ Meeting Memo and Newsletter ❖

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SOUTHERN CALIFORNIA CHAPTER AMERICAN STATISTICAL ASSOCIATION

May 1981

## MAY MEETING ANNOUNCEMENT

### LOS ANGELES

**WHO:** Dr. Arnold O. Allen  
Senior Instructor  
IBM Systems Science Institute  
Los Angeles

**TOPIC:** "Sixty-four Years of Queueing Theory"

**WHEN:** Thursday, May 28, 1981  
6:00 P.M. - Social Hour  
7:00 P.M. - Dinner  
8:00 P.M. - Speaker

**PRICE:** \$11.00  
\$ 7.00 for full-time students

**DINNER RESERVATIONS:** Please place your reservations with Bruce Hodge at (213) 741-4875 by Tuesday, May 26.

**WHERE:** UCLA Faculty Center.  
Parking in Structure #2 for \$2.00.

**DIRECTIONS:** The UCLA Faculty Center is located on campus at the northwest corner of Hilgard and Westholme. Approaching UCLA from Westwood Village on Westwood Boulevard turn right on Leconte, then left on Hilgard to Westholme. Parking is in Structure #2, directly opposite the Faculty Center.

### THE SPEAKER AND HIS TOPIC

Dr. ARNOLD O. ALLEN is a Senior instructor at the IBM Systems Science Institute. He received his Ph.D. from UCLA where he worked in functional analysis with Professor Angus E. Taylor. He has published in Recreational Mathematics Magazine, The IBM Systems Journal, and IEEE Computer. His book Probability, Statistics, and Queueing Theory with Computer Science Applications was published by Academic Press in 1978. Dr. Allen is responsible for the Capacity Planning and Performance Evolution of Computer Systems curriculum at the IBM Systems Science Institute. He has written an Independent Study Program Course for IBM called Capacity Planning; Basic Models.

A brief abstract of Dr. Allen's talk follows:

Queueing theory, a branch of applied probability, began with the publication of an important paper by A. N. Erlang in 1979. Erlang was a mathematician employed by the Copenhagen Telephone Company. Erlang's work in queueing theory was and is used by telephone engineers all over the world. In 1951 Professor David Kendall, in an address to the British Royal Statistical Society, pointed out that queueing theory could be applied to many practical problems outside telephony and was an attractive mathematical discipline, as well. He also developed a succinct notation for queueing systems. Some simple queueing system models will be examined together with examples of their application. Finally, the use of queueing theory to model computer systems will be discussed.

### NEXT CHAPTER MEETING

Our next Chapter Meeting will be held on Thursday, June 25th at the Velvet Turtle, in Chinatown. Speaker to be announced in the next newsletter.