

1970s

16th - 25th
Conferences on the Design of Experiments



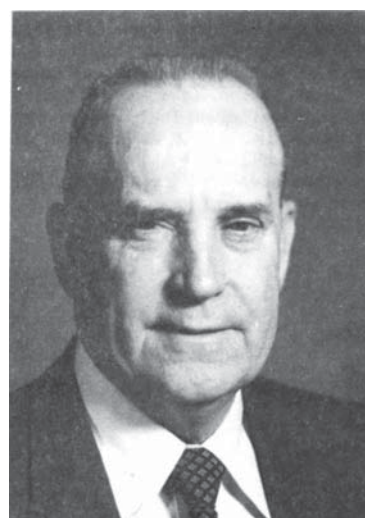
George E. P. Box



Churchill Eisenhart



H. O. Hartley



Frank Grubbs



William G. Cochran



Jerome Cornfield

1970s

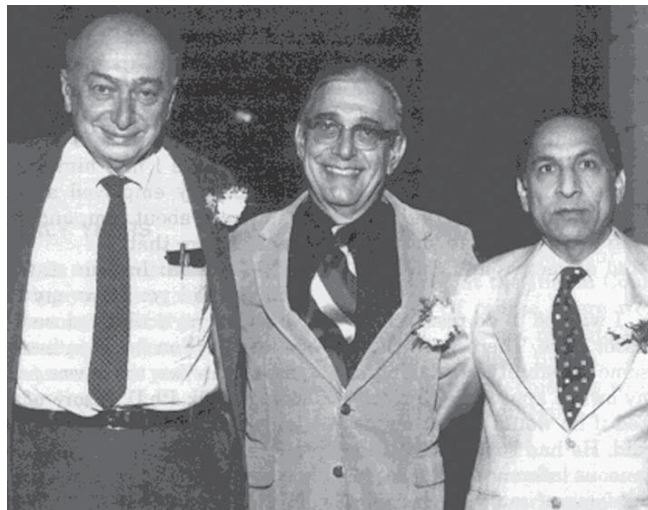
16th - 25th
Conferences on the Design of Experiments



Frederick Mosteller



John W. Tukey



Milton Sobel, Robert Bechhofer, and Shanti Gupta



Solomon Kullback



Norman Breslow

1978

24th Conference on the Design of Experiments

Mathematics Research Center, Univ. of Wisconsin, Madison, WI



James R. Moore, Langhorne Withers, Frank E. Grubbs, Douglas B. Tang,
Bernard Harris, Robert L. Launer, Malcolm Taylor, and Walter Foster

24th Conference on the Design of Experiments

Mathematics Research Center, Univ. of Wisconsin, Madison, WI



DOE participants. Front row: Dr. Ben Noble, MRC director; Dr. Grace Wahba, U. of Wisc.; Dr. Robert L. Launer, ARO; Dr. Frank E. Grubbs, APG; Dr. Bernard Harris, MRC; Dr. Walter Foster, AFIP. Back row: Dr. Ralph Bradley, FSU; Dr. Norman Draper, U. of Wisc.;

Dr. Malcolm Taylor, BRL; Dr. James R. Moore, BRL; Herb Cohen, AMSAA; Jill Smith, BRL; Dr. Doug DePriest, ONR; Dr. Douglas B. Tang, WRAIR; Dr. Edward Wegman, ONR; Langhorne Withers, OTEA.

Design of Experiments Conference Inaugurates Tutorial Seminar

The 24th conference on the Design of Experiments (DOE) in Army Research, Development and Testing was held 4-6 Oct. 1978 at the Mathematics Research Center, Madison, WI. The DOE is one of three annual conferences sponsored by the Army Mathematics Steering Committee.

One of the main functions of the Steering Committee is to foster the systematic education of the Army R&D community in new mathematical theories and their fundamental role in scientific research. As a result of this mission, the subcommittee on Statistics and Probability organized a special tutorial seminar, "The Fundamentals of Experimental Design," which was held on the two days preceding the DOE Conference.

Special guest speaker for this tutorial seminar was Prof. George E. P. Box, who is the Ronald Aylmer Fisher Professor of Statistics at the University of Wisconsin and the Mathematics Research Center. Prof. Box has made numerous fundamental contributions to the theory and methodology of the statistical design of experiments, and is well known for his recent work in time series analysis. He is co-developer of the famous Box-Jenkins method of time series modeling. He has written five books in statistics including the recent one with William G. Hunter and J.

Stuart Hunter, "Statistics for Experimenters."

The tutorial seminar was attended by approximately 40 Army scientists and engineers and about 15 students and faculty members from the University of Wisconsin. This year's tutorial was so successful that the Statistics and Probability subcommittee plans to adopt it as a regular feature of the DOE Conference.

Interested Army R&D personnel are urged to forward suggestions for future seminar topics to Dr. Douglas B. Tang, Walter Reed Army Institute of Research, chairman of the Subcommittee on Statistics and Probability, AV 291-2011 or Dr. Robert L. Launer, Army Research Office, AV 935-3331.

The theme of this year's DOE Conference was "Statistical Design and Analysis of Experiments." The keynote speaker was Norman Draper, University of Wisconsin, who spoke on "Ridge Regression." Other invited speakers and their titles were: Ralph Bradley, Florida State University, "Statistical Analysis of Weather Modification Experiments"; Grace Wahba, University of Wisconsin, "Design Problems in Recovering Functions of Two or Several Variables"; Brian Joiner, University of Wisconsin, "Statistical Consulting"; and Bernard Davis with Richard Barlow, University of California-

Berkeley, "Recent Advances in Graphical Techniques for Analyzing Failure Data."

A special feature of the DOE Conference is the annual presentation of the Samuel S. Wilks Memorial Award, consisting of a medal, citation and an honorarium, for contributions to the advancement of scientific or technical knowledge in statistics. This year's award was given to Dr. William H. Kruskal, professor of Statistics at the University of Chicago. Dr. Kruskal is a Fellow of the American Statistical Association and a Fellow and past president of the Institute of Mathematical Statistics.

The DOE Conference began with a welcome by Dr. Ben Noble, director of the Mathematics Research Center. The conference chairman was Dr. Frank E. Grubbs, Aberdeen Proving Ground, MD, and the chairman for local arrangements was Dr. Bernard Harris of the Mathematics Research Center and the University of Wisconsin.

Titles of the technical sessions were: "Time Series and Stochastic Modeling"; "Analysis of Variance Models"; "Statistical Theory"; "Statistical Inference"; "Special Applications"; and "Material Reliability." The 25th DOE Conference is tentatively scheduled to take place at the Natick Research and Development Command 17-19 Oct. 1979.