The By-Laws were also revised and further action was taken. More detailed accounts of this meeting will be sent directly to the members.

PAUL S. DWYER
Secretary

REPORT ON THE SEATTLE MEETING OF THE INSTITUTE

The thirty-sixth meeting and fourth Regional West Coast meeting of the Institute of Mathematical Statistics was held in Seattle, Washington, November 26–27, 1948. The sessions of November 27, 1948 were held jointly with the Biometric Society (Western N. A. Region). The meeting was attended by 91 persons, including the following 22 members of the Institute:

F. C. Andrews, E. W. Barankin, Z. W. Birnbaum, A. H. Bowker, D. G. Chapman, R. C. Davis, W. J. Dixon, E. Fay, M. A. Girshick, P. Horst, H. M. Hughes, J. C. R. Li, F. Massey, J. Neyman, E. Paulson, Elizabeth L. Scott, Esther Seiden, M. Sobel, Z. Szatrowski, J. R. Vatnsdal, J. E. Walsh and Zivia S. Wurtele.

At the morning session on November 26, Professor R. M. Winger of the University of Washington as chairman welcomed those attending the meetings, and the following program of contributed papers was presented:

1. *Estimation of the Variance of the Bivariate Normal Distribution.*
   Harry M. Hughes, University of California.
2. *Derivation of a Broad Class of Consistent Estimates.*
   R. C. Davis, NOTS, Inyokern, California.
3. *Locally Best Unbiased Estimates.*
   Edward W. Barankin, University of California.
4. *Some Problems Related to the Distribution of a Random Number of Random Variables.*
   Edward Paulson, University of Washington.
5. *Asymptotic Expansions for the Distribution of Certain Likelihood Ratio Statistics.*
   Albert H. Bowker, Stanford University.
6. *On a Problem of Confounding in Symmetrical Factorial Design.*
   Esther Seiden, University of California.
7. *Some Bounded Significance Level Tests of Whether the Largest Observations of a Set are Too Small.*
   John E. Walsh, Project RAND, Douglas Aircraft Corp., Santa Monica, Calif.

The afternoon session of November 26, under the chairmanship of Professor J. Neyman of the University of California at Berkeley, had the following program:

1. Invited paper:
   Multiple Decision Functions.
   M. A. Girshick, Stanford University.
   Contributed papers:
2. *Determination of Optimal Test Length to Maximize the Multiple Correlation Coefficient.*
   Paul Horst, University of Washington.
3. *Some Numerical Comparisons of a Non-Parametric Test with Other Tests.*
   F. J. Massey, University of Oregon.

4. *On the Deviation of Extreme Values.*
   W. J. Dixon, University of Oregon.
5. *The Optimum Size of Interval for Making Measurements of a Rocket's Angular Velocity.*
   Edward A. Fay, University of California.
6. *Stationary Time Series Analysis and Common Stock Price Forecasting.*
   Zenon Szatrowski, University of Oregon.

At the morning session of November 27, with Professor W. F. Thompson of the University of Washington as chairman, the program consisted of the following papers:

1. Invited paper:
   On the Place of Statistics in Fishery Biology.
   Willis S. Rich, Stanford University and U. S. Fish and Wildlife Service.
   Contributed papers:
2. *Distribution of the Number of Schools of Fish Caught per Boat.*
   J. Neyman, University of California.
3. *Some Problems in Fishery Research to which Statistical Methods are Applicable.*
   Ralph Silliman, U. S. Fish and Wildlife Service, Seattle, Washington.
4. *The Application of the Hypergeometric Distribution to Problems of Estimating and Comparing Zoological Population Sizes.*
   Douglas Chapman, University of California.
5. *Extension to Multivariate Case of Neyman's Smooth Test.*
   Elizabeth L. Scott, University of California.
6. *A Mathematical Theory of Vitamin A Metabolism in Fish.*
   Norman E. Cooke, Pacific Fisheries Experimental Station, Vancouver, B.C.

The afternoon session of November 27 was held under the chairmanship of Professor F. W. Weymouth of Stanford University, with the following program:

1. Invited paper:
   Statistical Problem of Enumeration of Fish Eggs in the Sea.
   Oscar E. Sette, U. S. Fish and Wildlife Service, San Francisco.
   Contributed papers:
2. *The Interactance Hypothesis.*
   Stuart C. Dodd, University of Washington.
3. *The Employment of Marked Members in Estimation of Animal Populations.*
   Milner E. Schaefer, Stanford University.
4. *Non-Response and Repeated Call-Backs in Opinion Polls.*
   Z. W. Birnbaum, University of Washington.
5. *Statistical Problems Relating to Fisheries.*
   J. L. Hart, Pacific Biological Station, Nanaimo, B. C.

On November 26, at 6:30 o'clock there was a dinner for members and guests at the Edmond Meany Hotel.

Z. W. BIRNBAUM

REPORT ON THE CLEVELAND MEETING OF THE INSTITUTE

The Eleventh Annual Meeting of the Institute of Mathematical Statistics was held at the Statler Hotel, Cleveland, Ohio, on December 27–30, 1948. The