

NEWS AND NOTICES

Readers are invited to submit to the Treasurer of the Institute news items of interest

Personal Items

Dr. J. Gani has been appointed Professor of Statistics, Michigan State University beginning April 1. Under Dr. Gani's guidance, Michigan State University will offer a program of instruction and research in applied probability.

Professor E. J. Gumbel, Columbia University, has been appointed Visiting Professor, University of Hamburg, Germany, for the summer term. He will give a course on the Statistical Theory of Extreme Values with Applications to Meteorology and Climatology.

Mr. Paul Gunther has accepted a position on the Technical Staff of Bellcomm, Inc., Washington, D. C. He is currently involved in reliability and flight test problems of the national space program.

Professor Shanti S. Gupta will head the Department of Statistics, Purdue University beginning in September.

Dr. James Lechner, formerly on the staffs of the Westinghouse Research and Development Laboratories and Carnegie Institute of Technology, has accepted a position as Advisory Mathematician at the Westinghouse Defense and Space Center, Baltimore, Maryland.

Dr. Julius Lieblein has joined the staff of the Office of Statistical Programs in the Office of the Assistant Postmaster General for Finance, Post Office Department, where he will serve as mathematical statistician concerned with statistical problems of cost ascertainment for the different classes of mail and services. He was formerly a mathematical statistician at the Applied Mathematics Laboratory, David Taylor Model Basin, Navy Department.

Dr. R. M. Loynes has been appointed Lecturer in Mathematics, University of Manchester, England.

Professor William Mendenhall, formerly of the Department of Mathematics, Bucknell University, has been appointed Head, Department of Statistics, University of Florida.

Dr. Donald B. Owen has left Sandia Corporation to head the Mathematical and Stochastic Systems Division in the Computer Sciences Laboratory, Graduate Research Center of the Southwest.

Mr. Fred L. Ramsey, an advanced graduate student in Statistics, Iowa State University, has been awarded the George W. Snedecor Award for 1964.

Dr. K. C. Seal has been appointed Director, Labour Bureau, Ministry of Labour and Employment, Simla, India.

Dr. Mohamed A. H. Taha, recently of the Swiss Federal Institute of Technology, has joined the staff of the University of Alexandria, Egypt, as a Lecturer in Mathematics and Statistics.

Professor Samuel S. Wilks died unexpectedly on March 8, 1964 at his home in

Princeton, at the age of 57. Professor Wilks was Editor of the *Annals* from 1938 to 1949 and President of the Institute in 1940. An obituary and review of his statistical work will appear in a later issue.

Professor E. J. Williams has assumed the Chairmanship of the Department of Statistics, University of Melbourne, Australia.

New Members

The following persons have been elected to membership in the Institute

- Ahuja, Jagdish C.**, Ph.D., (University of British Columbia, Canada); Assistant Professor, Department of Mathematics, University of Alberta, Calgary, Canada.
- Amsden, Robert T.**, M.S., (Rutgers—The State University); Graduate Student, Rutgers—The State University; *358 Prentiss Lane, University Heights, New Brunswick, New Jersey.*
- Aso, Yasuhiro**, M.S., (Tokyo University, Japan); Associate Statistician, Atomic Bomb Casualty Commission, Hijiyama-Koen, Hiroshima City, Hiroshima Prefecture, Japan.
- Baldwin, Joe G.**, Ph.D., (Georg-August Universitat, Germany); Mathematician, Statistics Research Division, Research Triangle Institute, Post Office Box 490, Durham, North Carolina.
- Bartholomew, David J.**, Ph.D., (University of London, England); Lecturer in Statistics, University College of Wales, Aberystwyth, Wales.
- Carlson, Thomas O.**, M.S., (New York University); Branch Manager, National Bureau of Casualty Underwriters, 1627 Peachtree Street, N.E., Atlanta, Georgia.
- Chao, Min-Te**, B.S., (National Taiwan University, China); Graduate Student, Department of Statistics, University of California, Berkeley; *2019 Emerson Street, Berkeley, California.*
- Crandall, Vern J.**, B.A., (Brigham Young University); Biometrics Trainee, National Institutes of Health at Kansas State University Graduate School; *1021 McCollum Street, Manhattan, Kansas.*
- Dachslager, Howard**, Ph.D., (University of California, Berkeley); Instructor, Department of Mathematics, University of California, Berkeley.
- Dipner, Ralph S.**, Student, San Francisco State College; *70 Minerva Street, San Francisco, California.*
- Dwyer, Samuel J., III**, Ph.D., (University of Texas); Assistant Professor, Department of Electrical Engineering, University of Missouri.
- Eilbott, Mrs. Joan M.**, M.S., (Stanford University); Associate Member of the Technical Staff, Bell Telephone Laboratories, Inc., Whippany, New Jersey.
- Fisk, Peter Reginald**, B.Sc., (London University, England); Senior Lecturer, School of Economics, University of New South Wales, Australia.
- Francis, Ivor S.**, M.Sc., (University of New Zealand); Graduate Student, Department of Statistics, Harvard University.
- Gillett, Billy E.**, M.S., (Oklahoma State University); Graduate Student, Oklahoma State University; *21-4 North University Place, Stillwater, Oklahoma.*
- Goss, Meredith R.**, M.S., (Oklahoma State University); Engineering Statistics Group, Phillips Petroleum Company, Bartlesville, Oklahoma.
- Halpern, Jerry W.**, M.S., (Stanford University); Graduate Student, Department of Statistics, Stanford University; *530 Crothers Memorial, Stanford, California.*
- Hoffman, William C.**, Ph.D., (University of California, Los Angeles); Mathematician, The Boeing Company, Scientific Research Laboratories, Post Office Box 3981, Seattle, Washington.
- Johnson, Richard Arnold**, M.S., (University of Minnesota); Graduate Student, Depart-

- ment of Statistics, University of Minnesota; *1074 Orange Avenue East, St. Paul 6, Minnesota.*
- Jorgensen, Abildg F.**, Scientific Assistant, Mathematical Institute, University of Aarhus, Denmark; *Brondbyoster Torv 21, Hvidovre, Denmark.*
- Kahn, Margaret L.**, B.A., (The George Washington University); Graduate Student/Teaching Assistant, The George Washington University.
- Klinger, Fredric**, B.A., (Brooklyn College); *224 Elmwood Avenue, Brooklyn, New York.*
- Levine, Arnold**, M.A., (University of California, Los Angeles); Graduate Student, Department of Mathematics, University of California, Los Angeles; *c/o Wolf, 418 South La Peer, Beverly Hills, California.*
- Levine, Donald Neil**, B.S., (Polytechnic Institute of Brooklyn); Student, Polytechnic Institute of Brooklyn; *4910 15th Avenue, Brooklyn, New York.*
- Mason, Jesse David**, B.S., (University of Missouri, Kansas City); Mathematician, General Dynamics/Pomona, California; *1531 West Princeton Street, Ontario, California.*
- Mason, Sterling A.**, M.S., (Brigham Young University); Senior Engineer-Computing, North American Aviation-Space and Information Systems Division, 12214 Lakewood Blvd., Downey, California; *7100 Dinwiddie, Downey, California.*
- Nestel, Gilbert**, M.A., (University of Michigan); Graduate Student, Department of Economics, University of Michigan; *1420 Jorn Court, Ann Arbor, Michigan.*
- Proakis, John G.**, M.S. (Massachusetts Institute of Technology); Graduate Student, Harvard University; *148 Hancock Street, Cambridge 39, Massachusetts.*
- Raghavachari, Madabhushi**, M.A., (University of Madras, India); Graduate Student, University of California, Berkeley.
- Rao, Poduri S. R. S.**, M.A., (Karnatak University, India); Graduate Student, Department of Statistics, Harvard University.
- Ray-Chaudhuri, D. K.**, Ph.D., (University of North Carolina); Staff Member, Department of Mathematical Sciences, IBM Thomas J. Watson Research Center, Post Office Box 218, Yorktown Heights, New York.
- Riley, Donald C.**, M.A., (Princeton University); Special Assistant, Office of Statistical Standards, U.S. Bureau of the Budget, Executive Office Building, Washington, D.C.
- Schay, Geza**, Ph.D., (Princeton University); Assistant Professor, Department of Mathematics, The George Washington University.
- Scott, Alastair J.**, M.Sc., (University of Auckland, New Zealand); Graduate Student, University of Chicago; *Box 67, Eckhart Hall, University of Chicago, Chicago 37, Illinois.*
- Shane, Harold D.**, M.S., (New York University); Instructor, Department of Mathematics, The Cooper Union School.
- Shyu, Tzai-hwa S.**, B.A., (Taiwan Provincial College of Law and Commerce, China); Graduate Student, Department of Statistics, University of Michigan; *1008 Monroe, Ann Arbor, Michigan.*
- Singer, Burton H.**, M.S., (Case Institute of Technology); Graduate Student/Research Assistant, Department of Statistics, Stanford University.
- Strauch, Ralph E.**, A.B., (University of California, Los Angeles); Graduate Student, University of California, Berkeley.
- Suarez, Maria Esther**, Professor, Department of Statistics, Universidad del Litoral, Argentina; *Paraguay 1631, Rosario, Argentina.*
- Thrall, George P., Jr.**, M.S., (Illinois Institute of Technology); Member of the Senior Staff, Measurement Analysis Corporation, 10962 Santa Monica Blvd., Los Angeles 25, California.
- Wahba, Mrs. Grace G.**, M.A., (University of Maryland); Staff Systems Analyst, IBM Federal Systems Division, 2450 Watson Court, Palo Alto, California.
- Waikar, Vasant B.**, M.S., (Nagpur University, India); Graduate Student/Assistant, Department of Statistics, The Florida State University; *461-3 West Jefferson Street, Tallahassee, Florida.*

- Walter, Edward**, Ph.D., (Universitat Gottingen, Germany); Professor, Institut fur Medizinische Statistik und Dokumentation, Germany.
- Westlake, Wilfred J.**, Ph.D., (University of London, England); Staff Specialist, System Sciences Division, Control Data Corporation, 6060 West Manchester Avenue, Los Angeles 45, California; 1120 El Medio Avenue, Pacific Palisades, California.
- Whorton, Elbert B., Jr.**, M.S., (Tulane University); Graduate Student, Department of Statistics, Tulane University; 5801 Airline Highway, Place 18, New Orleans, Louisiana.
- Williams, Paul D.**, M.S., (Tulane University); Research Associate, School of Medicine, Louisiana State University; 1229 Hesper Avenue, Metairie, Louisiana.
- Williamson, Eric**, M.A., (University of Edinburgh, Scotland); Lecturer, Department of Industrial Engineering and Management, Loughborough College of Technology, Scotland.
- Winkler, Robert L.**, B.S., (University of Illinois); Graduate Student, Graduate School of Business, University of Chicago; 11014 South Artesian, Chicago 55, Illinois.
- Wynd, Michael P.**, M.A., (Harvard University); Editor, Addison-Wesley Publishing Company, Inc., Reading, Massachusetts.

MANAGING EDITOR FOR THE ANNALS

Professor Paul Meyer of Washington State University has been elected by the Council of the Institute of Mathematical Statistics to serve as the first Managing Editor of the *Annals of Mathematical Statistics*. With the recent rapid growth of the *Annals*, it has become necessary to separate the editing and publishing functions. The Editor will continue to be responsible for the consideration and acceptance of manuscripts, while the Managing Editor will have the responsibility for publication of the *Annals*.

REDUCED RATE FOR *THE AMERICAN STATISTICIAN*

Members of the Institute of Mathematical Statistics, who are not also members of the American Statistical Association, may now subscribe to *The American Statistician* for the reduced rate of \$1.50 per year. Payment should be sent directly to the Office of the American Statistical Association, Room 703, 810-18th Street, N.W., Washington, D. C. Subscribers should specify that they are Institute members.

INSTITUTE ON SYSTEMS RELIABILITY

New York University will present a two-week Institute on Probabilistic Techniques in Systems Reliability and Maintainability, July 13-24, 1964. In addition to courses on such topics as mathematical models for reliability and applications of renewal theory to optimum maintenance, there will be a seminar on current research and unsolved problems. For further information, write to Raymond N. Wilburn, Executive Director, BUREAU OF CONFERENCES AND INSTITUTES, New York University, 6 Washington Square North, New York, New York 10003.

REPORT OF THE COPENHAGEN MEETING OF THE INSTITUTE OF MATHEMATICAL STATISTICS

The 97th meeting of the Institute of Mathematical Statistics was held at the H. C. Ørsted Institutttet, Universitetsparken 5, Copenhagen, Denmark, on July 8–10, 1963. The last day of the meeting was held in conjunction with the first day of a three-day meeting of the Econometric Society.

There were 160 participants registered for the joint conference, 60 for the IMS section alone and 85 for the ES section alone so that totally 305 persons participated in the meetings.

Program

Monday, July 8, 1963

9:30 a.m.—Stochastic Processes

Chairman: P. WHITTLE, Manchester University.

Invited Papers

1. *Batched Queuing Processes*, F. G. FOSTER, London School of Economics, England.
2. *Three Remarks on Martingale Theory*, J. NEVEU, Institut Henri Poincare, Paris.
3. *On the Formulation of Statistical Meteorology*, W. FREIBERGER and U. GRENANDER, Institute of Mathematical Statistics, University of Stockholm.

Contributed Paper

Analysis of Computer Failure Patterns I: A Branching Poisson Process Model, P. A. W. LEWIS, Birkbeck College, London.

2:30 p.m.—Combinatorial Methods and Their Applications in Probability Theory and Statistics

Chairman: E. SVERDRUP, University of Oslo.

Invited Papers

1. *Some Aspects of the Random Sequence: A Review of Amalgamation Ballots, Records, Sorting and Simon Newcomb's Problems*, D. E. BARTON and C. L. MALLOWS, University College, London, and Columbia University, New York.
2. *On a Class of Discontinuous Distributions Related to the Jacobian Theta Functions*, G. RASCH, University of Copenhagen.

4:30 p.m.—Contributed Papers I—Session I

Chairman: E. SVERDRUP, University of Oslo.

1. *A Monotonicity Property of a Class of Tests of the Equality of Two Covariance Matrices*, T. W. ANDERSON and S. DAS GUPTA, Columbia University and Purdue University.
2. *Asymptotic Regression Curves with Different Asymptotes*, I. M. CHAKRAVARTI, University of Geneva.
3. *A Test of Whether Two Regression Lines Are Parallel When the Variances May be Unequal*, R. F. POTTHOFF, University of North Carolina.
4. *Non-Parametric Regression Analysis*, G. S. WATSON, Johns Hopkins University.

4:30 p.m.—Contributed Papers I—Session II

Chairman: E. SPARRE ANDERSEN, University of Aarhus.

1. *Quantum Mechanics and Probability Theory: Criticism of Feynman Position*, H. BRENY, University of Liège.
2. *On the Semimartingale Convergence Theorem*, S. JOHANSEN and J. KARUSH, University of Copenhagen.
3. *Progressive Correction* (Preliminary report), C. S. VAN DOBBEN DE BRUYN, N. V. Philips' Gloeilampenfabrieken, Netherlands, (Introduced by L. C. A. Corsten).

7:00 p.m.—Reception in the City Hall by the City Council of Copenhagen

Tuesday, July 9, 1963

9:30 a.m.—Contributions to the Theory and Methods of Random Experiments I

Chairman: J. DURBIN, London School of Economics.

Invited Papers

1. *Is There a Need for a Unified Theory of Random Experiments*, B. MATÉRN and T. DALÉNUS, Stockholm University.
2. *Combined Use of Experiments and Sample Surveys*, M. H. QUENOUILLE, London School of Economics.

11:00 a.m.—Contributions to the Theory and Methods of Random Experiments II

Chairman: Z. W. BIRNBAUM, University of Washington.

Invited Paper

Sampling in Space and Time, J. VOS, Technological University, Delft, Netherlands.

Contributed Paper

An Estimator for the Population Regression Coefficient From a Stratified Sample, M. DE VRIES, Amsterdam, Netherlands.

2:30 p.m.—Miscellaneous Subjects

Chairman: J. HEMELRIJK, University of Amsterdam.

Invited Papers

1. *Queuing for Gaps in a Traffic Stream*, J. W. COHEN and A. J. STAM, Mathematical Institute, Technological University, Delft, Netherlands.
2. *On Some Tests for Outlying Observations*, R. DOORNBOS, University of Rotterdam.
3. *Mean Values and Their Statistical Applications*, H. BRØNS, University of Copenhagen.

4:30 p.m.—Contributed Papers II—Session I

Chairman: J. HEMELRIJK, University of Amsterdam.

1. *Some Intuitionistic Aspects of Markov Chains*, J. G. DIJKMAN, Technological University, Delft, Netherlands.
2. *Exact Power Values of the Wilcoxon (Mann-Whitney) Two-sample Test Against Lehmann's Alternatives*, H. B. EISENBERG, System Development Corporation, California.
3. *Some Limit Theorems for the Dodge-Romig AOQL Single Sampling Inspection Plans*, A. HALD and E. KOUSGAARD, University of Copenhagen.

4. *Simultaneous Confidence Intervals for Weighted Sums of Classification Probabilities*, P. J. STINSON and J. E. WALSH, Veterans Administration Support Center, California, and System Development Corporation, California.
5. *Selection of Categories for Some Permutation Results Based on Grouped Data* (Preliminary report), J. E. WALSH, System Development Corporation, California.

4:30 p.m.—Contributed Papers II—Session II

Chairman: G. S. WATSON, Johns Hopkins University

1. *Mean Square Expectations for Orthogonal Contrasts in Mixed Model Analyses of Variance*, KLAUS ABT, U.S. Naval Weapons Laboratory, Virginia, (Introduced by V. Chew).
2. *Random Division of an Interval*, F. W. STEUTEL, Mathematisch Centrum, Amsterdam, (Introduced by W. R. van Zwet).
3. *On Optimal Stopping Rules for Maximizing s_n/n in Coin Tossing*, Y. S. CHOW and HERBERT ROBBINS, Columbia University.
4. *Nonsensical Maximum Likelihood Estimators*, O. REIERSØL, University of Oslo.

6:00 p.m.—Meeting of the IMS Committee on the European Region

Wednesday, July 10, 1963

9:30 a.m.—Joint Meeting of IMS and ES

Chairman: E. MALINVAUD, National School of Statistics and Economic Administration, France

Invited Papers

1. *On the Optimality of Adaptive Forecasting*, M. NERLOVE and S. WAGE, Netherlands School of Economics, Rotterdam.
2. *An Approximation to the Distribution Function of Two-Stage Least-Squares Estimates*, J. D. SARGAN, Leeds University, England.

Contributed Paper

Maximum Likelihood Estimation of the Parameters of a System of Simultaneous Regression Equations, J. DURBIN, London School of Economics.

2:00 p.m.—Sightseeing tour of the Castles of North Zealand

Contributed Papers Presented by Title

1. *A Comparison Between the Variability of the Partial Regression Coefficients of x_1 on x_2 and Those of x_2 on x_1* , E. LYTTKENS, Institute of Statistics, Uppsala University, Sweden, (Introduced by H. Wold).
2. *Distribution Functions With Given Marginal Distributions*, H. G. KELLERER, University of Munich, Germany.
3. *The Influence of Smoothing on the Correlation Between Two Synchronous Series*, C. LEVERT, Royal Meteorological Institute, Netherlands.

PUBLICATIONS RECEIVED

- AABOE, ASGER (1964). *Episodes from the Early History of Mathematics*. Random House, New York. 133 pp. \$1.95 (paper cover), \$2.95 (hard cover).
- FINNEY, D. J. et al. (eds.) (1963). *Tables for Testing Significance in a 2×2 Contingency Table*. Cambridge University Press (New York). 103 pp. \$3.25.

- HARRIS, THEODORE E. (1963). *The Theory of Branching Processes*. Springer-Verlag, Berlin; Prentice-Hall, Englewood Cliffs, New Jersey. xiv + 230 pp. \$9.00 (Springer), \$9.00 retail, \$6.75 academic (Prentice-Hall).
- KAUFMANN, A. (1964). *Méthodes et Modèles de la Recherche Opérationnelle, Tome II*. Dunod, Paris. 543 pp. 76 F.
- LAWLEY, D. N. and MAXWELL, A. E. (1963). *Factor Analysis as a Statistical Method*. Butterworth, Inc., Washington, D. C. 125 pp. \$4.25.
- MALINVAUD, EDMOND (1964). *Méthodes Statistiques de l'Économétrie*. Dunod, Paris, 634 pp. 86 F.