

NEWS AND NOTICES

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

Personal Items

Max Astrachan was on leave of absence from his position as Professor of Statistics, USAF Institute of Technology, during July and August as Operations Analyst with Hq 49th Air Division in England.

Maurice H. Belz has been appointed to the recently created Chair of Statistics in the University of Melbourne.

Paul C. Clifford has been granted a leave of absence from Montclair State Teachers College to serve as Consultant on Quality Control for the Organization for European Economic Cooperation. This project, which is sponsored by the Foreign Operations Administration, will take Mr. Clifford to Norway, Sweden, Denmark, the Netherlands, Germany, France, Italy, and Turkey.

Mr. Gerald D. Berndt, formerly with the Quartermaster Research and Development Center at Natick, Mass., has accepted a special assignment with the Advisory Committee on Weather Control in Washington, D. C. The assignment is for 18 months and is concerned with analyzing meteorological experiments.

Dr. H. A. David has resigned from his position with the Commonwealth Scientific and Industrial Research Organization of Australia to take up a Senior Lectureship in Statistics in the University of Melbourne.

After receiving his Ph.D. from the Department of Mathematical Statistics of Columbia University, Cyrus Derman has joined the faculty of Syracuse University as an Instructor in the Department of Mathematics.

Frank M. duMas has joined the staff of the Department of Psychology, Montana State University. He formerly was a member of the faculty of Michigan State College.

John W. Forman, formerly an instructor in Mathematics at the University of Kansas, is now an Applied Science Representative for International Business Machines Corporation in Kansas City, Missouri.

Mr. Edwin L. Godfrey has accepted a position as Supervisory Mathematician in the Problem Formulation Section of the Statistical Services Division associated with the UNIVAC electronic computer at Wright-Patterson Air Force Base. He has just returned from New York where he was enrolled in a course in Programming conducted by the training division of Remington Rand, Inc.

Roe Goodman has been transferred from the Technical Assistance Administration of the United Nations to the Food and Agriculture Organization under whose program of technical assistance he has been sent to Chile in connection with the Chilean Agricultural Census, 1955. He and his family arrived in Santiago in September, 1954 for an assignment of one year.

Dr. T. N. E. Greville formerly a statistician with the United States Operations Mission to Brazil has been appointed Assistant Chief Actuary of the Social Security Administration in Washington, D. C.

Robert Hooke, of the Analytical Research Group, Princeton University, has accepted a position, starting in July, as a Research Mathematician with the Westinghouse Research Laboratories, East Pittsburgh, Pa.

Arthur Horberg, formerly of the Institute for Air Weapons Research, has accepted the position of Mathematician with the Bendix Research Laboratories, Detroit.

W. Robert Hydeman has been transferred by Remington Rand, Inc. to the Electronic Computer Department at 315 Fourth Ave., New York City. Mr. Hydeman's activities as Sales Engineer include the application of electronic computers to engineering and scientific calculations and the analysis of data handling systems employing electronic computers as their central processing facilities.

R. J. Jessen was on leave from the Statistical Laboratory, Iowa State College, for six weeks (from mid-February through March 1955) to serve as Technical Expert for FAO at a Latin American Demonstration Center on Agricultural Sampling Techniques being held in Buenos Aires, Argentina.

B. S. Kařar is now at the University of Illinois on a half-time teaching assistantship while working on his Ph.D. in Statistics.

Edward H. Kingsley is Operations Analyst in the Office of Operations Analysis, Deputy Chief of Staff/Operations, HQ, Air Proving Ground Command, Elgin Air Force Base, Florida.

Miss Evelyn L. Rumer has recently married and is now Mrs. Edward C. Kramer.

Upon completion of his Ph.D. in Statistics at Stanford University, Paul Meyer was drafted into the army. He is now stationed in Baltimore, at HQ-Materiel Command of the Chemical Corps, and is working as a statistician in the Quality Evaluation Division.

M. Ray Mickey has resigned from his position as Assistant Professor in the Statistical Laboratory of Iowa State College to rejoin Rand Corporation, Santa Monica, California, in April 1955. He will be part of a group working on logistic problems for the U. S. Department of Defense.

O. B. Moan has accepted a position as Research Specialist in the Staff Engineering Department of Lockheed Aircraft Corp., Missile Systems Division, Van Nuys, California.

Bruce D. Mudgett is doing a year of teaching at Brown University as Visiting Professor of Economics, filling in for a regular member of their staff who is spending a year with the National Bureau of Economic Research in New York.

Henry H. Peterson has accepted a position as Associate Engineer, Operations Analysis for the Douglas Aircraft Company at Long Beach, California.

Dr. Bayard Rankin has accepted a position as Research Associate in the Department of Mathematics, Massachusetts Institute of Technology.

Joseph S. Rhodes has resigned his position as Mathematical Statistician, Department of the Air Force, Washington, D. C. to accept a position as Methods and Operations Research Officer with the Chesapeake and Ohio Railway Company, Cleveland, Ohio.

Dr. W. A. Shewhart has been given the first Honorary Professorship in Statistical Quality Control by Rutgers University. He is at present in India and was this year elected to Honorary Membership in the Royal Statistical Society and awarded the Holley Medal of the American Society of Mechanical Engineers.

Rosedith Sitgreaves has accepted a position as Research Associate on Air Force Project on "Discriminatory Analysis" at Teachers College, Columbia University, New York.

Dr. Milton Sobel has accepted a position, starting Sept. 1, 1954, with the Bell Telephone Laboratories in Allentown, Pa. He was formerly working on an Air Force Research Contract at Cornell University.

Bergen R. Suydam has accepted the position of Chief, Operations Analysis, at Headquarters, United States Air Forces in Europe.

Kazuo Uemura has accepted the appointment by the World Health Organization of the United Nations to the post of Statistician in Geneva, Switzerland.

John Richard Wittenborn has been appointed at Rutgers University as University Professor of Psychology with assignment to the School of Education as Chairman of the Department of Pupil Personnel Service. This Department includes measurements and statistics, guidance, and school psychology.

In February Dr. E. S. Watson assumed the position of Senior Fellow in the Department of Statistics, Research School of the Social Sciences, Australian National University, Canberra, Australian Central Territory. The Australian National University, founded about four years ago is entirely a postgraduate university.

Martin B. Wilk, associate in the Statistical Laboratory and the Iowa Agricultural Experiment Station, has been awarded the George W. Snedecor Award in Statistics for 1955. The award, comprising a year's membership in the IMS and a subscription to its Annals, is given annually to the most outstanding candidate for the Ph.D. degree in statistics at Iowa State College.

Dr. Sewall Wright has retired from the University of Chicago (Department of Zoology) and has accepted the Leon J. Cole Professorship of Genetics at the University of Wisconsin.

Summer Offerings in Statistics at Iowa State College

The Department of Statistics at Iowa State College will offer a course in decision theory at the advanced graduate level during the first half of the 1955 summer quarter. The course will be taught by Dr. S. L. Isaacson. Members of the graduate faculty in statistics will be available during most of the summer for consultation on graduate research and for special problems courses. Other offerings for the two six-week sessions (June 13-July 20 and July 20-August 26) of the summer quarter are designed mainly for the graduate minor in statistics and for the beginning graduate major in statistics who wishes to satisfy prerequisite requirements for more advanced courses. These additional offerings include "Statistical Methods for Research Workers", "Statistical Theory for Research Workers", "Experimental Designs for Research Workers", and "Survey Designs

for Research Workers". For additional information, write to: T. A. Bancroft, Director, The Statistical Laboratory, Iowa State College, Ames, Iowa.

Summer Offerings in Statistics at the University of Michigan

During the Summer Session of 1955, June 20–August 12, the University of Michigan in Ann Arbor will offer a variety of programs and courses of interest to statisticians and students of mathematical statistics. The Department of Mathematics will present a number of elementary and advanced courses and seminars on theoretical statistics, probability, finite differences, and game theory. These courses will be under the direction of Professors A. H. Copeland, Sr., C. C. Craig, P. S. Dwyer, C. J. Nesbitt, and Dr. Clarke. A number of courses in applied statistics and statistical methods will also be given under the auspices of the Departments of Mathematics, Economics, Sociology, Psychology, and the School of Business Administration.

In addition to the preceding courses, a number of special programs in allied fields will be offered. Among these are the Program in Survey Research Techniques, July 18–August 12, the Summer Institute in Mathematics for Social Scientists, June 20–August 12, the Program on Digital Computers and Data Processors, August 1–12, and the Program on Quality Control, August 17–27.

Inquiries regarding courses in Statistics should be directed to Professor C. C. Craig, Department of Mathematics, and inquiries regarding the allied programs should be addressed to the Office of the Summer Session, 3510 Administration Building, Ann Arbor, Michigan.

Doctoral Dissertations in Statistics, 1954

Listed below are the doctorates conferred during the year 1954 in the United States and Canada for which the dissertations were written on topics in statistics or related fields. The university, major subject, and the title of the dissertation are given in each case.

S. G. Allen, Stanford, major in statistics, "A Class of Minimax Tests for One-sided Composite Hypotheses".

S. L. Andersen, North Carolina State College, major in experimental statistics, "Robust Tests for Variances and Effect of Non Normality and Variance Heterogeneity on Standard Tests".

G. E. Baxter, Minnesota, "An Application of Stochastic Processes to Certain Problems in the Brownian Motion of Continuous Media".

D. R. Bey, Illinois, major in statistics, "Modified Discriminant Analysis of School Organizations".

Allan Birnbaum, Columbia, major in mathematical statistics, "Characterizations of Complete Classes of Tests of Some Multiparametric Hypotheses with Applications to Likelihood Ratio Tests".

Isadore Blumen, North Carolina, major in statistics, "The Estimation of the Means of the Multivariate Normal Distribution: Minimax Solutions".

R. N. Bradt, Stanford, major in statistics, "On the Design and Comparison of Certain Dichotomous Experiments".

Barron Brainerd, Michigan, major in mathematics, "An Algebraic Theory of Probability with Applications to Analysis and Mathematical Logic".

Leo Breiman, California (Berkeley), major in mathematics, "Homogeneous Processes".

P. P. Crump, North Carolina State College, Major in experimental statistics, "Optimal Designs to Estimate the Parameters of a Variance Component Model".

M. B. Danford, North Carolina State College, major in experimental statistics, "Factor Analysis and Related Statistical Techniques".

Cyrus Derman, Columbia, major in mathematical statistics, "Some Contributions to the Theory of Markov Chains".

A. R. Eckler, Princeton, major in mathematics, "Rotation Sampling".

S. M. Free, Jr., North Carolina State College, major in experimental statistics, "Relationship of Instrument Color Measurements to Some Quality Indices of Flue-cured Tobacco".

W. R. Gaffey, California (Berkeley), major in mathematical statistics, "The Problem of Within-family Contagion".

R. K. Getoor, Michigan, major in mathematics, "Some Connections Between Operators in Hilbert Space and Random Functions of the Second Order".

A. H. E. Grandage, North Carolina State College, major in experimental statistics, "Biological Assay of a Material when Interfering Substances are Present".

L. E. Grosh, Purdue, major in mathematics, "Uniform Distribution and Round-off Error".

J. E. Hafstrom, Minnesota, major in mathematics, "Non-Linear Transformations in Wiener Space of the form, $y(t) = x(t) + q[t; x(t_1), \dots, x(t_n)]$ ".

D. C. Hastings, Minnesota, major in statistics, "A Monthly Index of Regional Business Activity Based on Net Product Measurements".

J. S. Hunter, North Carolina State College, major in experimental statistics, "Multi-factor Experimental Designs".

P. K. Ito, St. Louis, "On the Simultaneous Minimax Point Estimation".

E. M. Jacobs, Iowa State College, major in statistics, "A Statistical Technique for Estimating the Characteristics of Consumer Behavior".

Maurice Kennedy, California Institute of Technology, "Ergodic Theorems for a Certain Class of Markoff Processes".

H. S. Konijn, California (Berkeley), major in mathematical statistics, "On the Power of Some Tests for Independence".

C. H. Kraft, California (Berkeley), major in mathematical statistics, "On the Problem of Consistent and Uniformly Consistent Statistical Procedures".

R. B. McHugh, Minnesota, major in statistics, "On the Scaling of Psychological Data by Latent Structure Analysis".

P. L. Meyer, Stanford, major in statistics, "An Application of the Invariance Principle to the Student Hypothesis".

T. V. Narayana, North Carolina, major in statistics, "Sequential Procedures in Probit Analysis".

K. C. S. Pillai, North Carolina, major in statistics, "On Some Distribution Problems in Multivariate Analysis".

J. H. Powell, Michigan State College, major in mathematical Statistics, "A Mathematical Model for Single Function Group Organization Theory with Applications to Sociometric Investigations".

Bayard Rankin, California (Berkeley), major in mathematical statistics, "The Concept of Sets Enchained by a Stochastic Process and its Use in Cascade Shower Theory".

W. C. Ross, Jr., State Univ. of Iowa, major in mathematics, "Certain Functions of Order Statistics".

Jacques Saint Pierre, North Carolina, major in statistics, "Distribution of Linear Contrasts of Order Statistics".

Herbert Scarf, Princeton, "Differential Operators on Manifolds, and Applications to Stochastic Processes".

R. F. Schweiker, Harvard, "Individual Space Models of Certain Statistics".

K. C. Seal, North Carolina, major in statistics, "On a Class of Decision Procedures for Ranking Means".

J. M. Shapiro, Minnesota, major in mathematics, "An Error Estimate for the Convergence of Distributions of Sums of Independent Random Variables to Infinitely Divisible Distributions".

Morris Skibinsky, North Carolina, major in statistics, "Some Properties of a Bayes Two-stage Test for the Mean".

Harry Smith, Jr., North Carolina State College, major in experimental statistics, "Weighting Coefficients for Age-adjusted Death Rates".

D. S. Stoller, California (Los Angeles), major in statistics, "Asymptotically Optimum Discriminant Function Estimates".

H. L. Stubbs, Boston, major in mathematics, "Non-normal Models for the Classification of Speech Sounds".

W. A. Thompson, North Carolina, major in statistics, "On the Ratio of Variances in the Mixed Incomplete Block Model".

A. W. Wortham, Oklahoma A and M, "On Estimates of Variance Components".

Z. S. Wurtele, Columbia, major in mathematical statistics, "Some Properties of Bayes Procedures which Improve Lot Quality".

New Members

The following persons have been elected to membership in the Institute

November 17, 1954 to February 8, 1955

Alder, Henry L., Ph.D. (Univ. of California), Assistant Professor of Mathematics, University of California, Davis, California.

- Ansari, Abdur Rahman**, M.A. (Muslim Univ., Aligarh, India), Graduate Assistant, Mathematics Department, University of Oregon, Eugene, Oregon.
- Bell, Earl Louis**, M.S. (Northwestern Univ.), Mathematical Statistician, Department of the Air Force, School of Aviation of Medicine, Department of Biometrics, Randolph Air Force Base, Texas, *483 Trudel Drive, San Antonio, Texas*.
- Birdsall, T. G.**, M.S. (Univ. of Michigan), Research Associate, Engineering Research Institute, University of Michigan, Ann Arbor, Michigan.
- Blasbalg, Herman**, M.S.E.E. (Univ. of Maryland), Research Associate, Johns Hopkins University, 1315 St. Paul Street, Baltimore, Maryland.
- Brown, William Fuller, Jr.**, Ph.D. (Columbia Univ.), Research Physicist, Sun Oil Company, Sun Physical Laboratory, Newtown Square, Pennsylvania, *600 Parrish Road, Swarthmore, Pennsylvania*.
- Burros, Raymond H.**, Ph.D. (Yale Univ.), Visiting Associate Professor of Psychology, University of Houston, Houston, Texas.
- Carroll, Mavis B. (Mrs.)**, B.Sc. (Rutgers Univ.), Project Leader—Statistician, Central Research Laboratories, General Foods Corporation, 11th and Hudson Sts., Hoboken, New Jersey.
- Doyle, Patrick J.**, B.S. (Univ. of Washington), Mathematical Statistician, Naval Ordnance Laboratory, Corona, California.
- Durbin, James**, M.A. (Cambridge Univ.), Reader in Statistics, University of London, London School of Economics and Political Science, Houghton Street, London W.C.2, England.
- Elias, Peter**, Ph.D. (Harvard Univ.), Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.
- Garratt, Alfred E.**, M.S. (Northwestern Univ.), Chief, Design and Analysis Office, BW Assessment Laboratories, Dugway Proving Ground, Dugway, Utah, *145 North 2nd Street, Tooele, Utah*.
- Golub, Gene H.**, M.A. (Univ. of Illinois), Research Assistant, Electronic Digital Computer, 162 Engineering Research Laboratory, University of Illinois, Urbana, Illinois.
- Graves, Clayborn L.**, M.S. (Univ. of Southern Calif.), Supervisory Mathematical Statistician, Naval Ordnance Laboratory, Corona, California, *18382 E. Crescent Drive, Anaheim, California*.
- Gregory, Geoffrey**, B.A. (Cambridge Univ.), Research Assistant and Student, Department of Applied Mathematics and Statistics, Stanford University, Stanford, California.
- Guha Thakurta, B. K.**, M.S. (Univ. of Calcutta), Assistant Superintendent of Statistics, State Statistical Bureau, Government of West Bengal, P.O.—Krishnagar, Dist.—Nadia, West Bengal, India.
- Hall, W. B.**, B.A. (Univ. of Melbourne), Research Officer, Commonwealth Scientific and Industrial Research Organization, Division of Mathematical Statistics, Graham Road, Highett, S21, Victoria, Australia, *138 Whitehorse Road, Balwyn E.S., Victoria, Australia*.
- Helmstadter, G. C.**, Ph.D. (Univ. of Minnesota), Associate in Research, Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.
- Homma, Tsuruchiyo**, M.S. (Tôhoku Univ.), Lecturer of Mathematics, Mathematical Institute, Faculty of Science, Tokyo Metropolitan University, 591 Fusuma-cho, Meguro-ku, Tokyo, Japan.
- Johnson, Millicent H.**, B.A. (Univ. of Minnesota), Teaching Assistant, Biostatistics Division, Department of Public Health, University of Minnesota, Minneapolis 14, Minnesota.
- Katz, Morris W.**, B.A. (McMaster), Graduate Student in Statistics, University of Illinois, Urbana, Illinois, *92 Hillcrest Avenue, Hamilton, Ontario, Canada*.
- Kennedy, George H.**, A.B. (Princeton Univ.), Analytical Statistician (Biological Sciences), U.S. Army Chemical Corps, Camp Detrick, Frederick, Maryland.

- Lentz, Gordon A.**, B.A. (Univ. of Minnesota), Graduate Student, University of Minnesota, Minneapolis 14, Minnesota, *7508 3rd Avenue South, Minneapolis, Minnesota.*
- Mardessich, Bartolo**, Doctor in Statistics (Univ. of Rome), Assistant Director, DOXA—Institute for Statistical Research and Public Opinion Analysis, Via Mameli, 10—Milano, Italy, *Viale Lucania, 21—Milano, Italy.*
- Miller, Irwin**, M.S. (Purdue Univ.), Graduate Research Assistant, Department of Statistics, Virginia Polytechnic Institute, Blacksburg, Virginia.
- Neff, M. Carolyn**, B.S. (Western Reserve Univ.), Administrative Assistant, Development Division, Lecturer, Secretarial Sciences, School of Business, Graduate Student, School of Business, Western Reserve University, 2040 Adelbert Road, Cleveland 6, Ohio.
- Oakford, Robert Vernon**, B.A. (Stanford Univ.), Graduate Student in Statistics, Stanford University, Stanford, California, *10 Maywood Lane, Menlo Park, California.*
- Peries, H. E.**, M.A. (Cantab), Director of Census and Statistics, Department of Census and Statistics, Government of Ceylon, P. O. Box 563, Colombo, Ceylon, *16, DeFonseka Road, Colombo 5, Ceylon.*
- Pinkham, Roger S.**, A.M. (Harvard Univ.), Graduate Student, Harvard University, Cambridge, Massachusetts, *203C Holden Green, Cambridge, Massachusetts.*
- Polowy, Henry**, M.S. (New York Univ.), Instructor of Mathematics, Stevens Institute of Technology, Hoboken, New Jersey.
- Robinson, William Keith**, B.S. (Univ. of Washington), Actuary, Old American Life Company, 1619 Terry Avenue, Seattle 1, Washington.
- Schlaifer, Robert**, Ph.D. (Harvard Univ.), Associate Professor of Business Administration, Graduate School of Business Administration, Harvard University, Boston 63, Massachusetts.
- Schneider, Robert C.**, B.S. (Seattle Univ.), Mathematical Statistician, Naval Ordnance Laboratory, Corona, California.
- Shellow, James M.**, B.A. (Univ. of Chicago), Director of Research, Henry Shellow and Associates, 1012 North Third Street, Milwaukee, Wisconsin.
- Shugert, Richard F.**, B.S. (Rutgers Univ.), Engineer Aerodynamicist, Applied Aeronautical Research, Stroukoff Aircraft Corporation, West Trenton, New Jersey.
- Silvey, S. D.**, Ph.D. (Glasgow Univ.), Lecturer in Mathematics, University of Glasgow, Glasgow W.2., Scotland.
- Star, Martin L.**, B.B.A. (City College of New York), Quality Control Supervisor, Sonotone Corporation, Cold Spring, New York, *2270 81st Street, Brooklyn 14, New York.*
- Stiver, Ray B., Jr.**, M.B.A. (Univ. of Buffalo), Dynamics Engineer, Bell Aircraft Corporation, Wheatfield Plant, P.O. Box 1, Buffalo 5, New York, *914 Michigan Avenue, Buffalo 3, New York.*
- Troll, John H.**, M.A. (Harvard Univ.), Vice President for Engineering, Electronics Corporation of America, 77 Broadway, Cambridge 42, Massachusetts.
- Udinski, W. P.**, Ph.D. (Univ. of Illinois), Mathematician, Human Resources Research and Personal Training Section, Machine Processing Branch, Lackland Air Force Base, San Antonio, Texas, *714 South Palmetto Avenue, San Antonio 3, Texas.*
- Yarnold, James K.**, B.S. (Trinity Univ.), Research Assistant, Statistical Laboratory, University of California, Berkeley 4, California.
- Yasuoka, Yoshinori**, M.Sc. (Tokyo Univ.), Lecturer of Mathematics, Mathematical Institute, Faculty of Science, Tokyo Metropolitan University, 591 Fusuma-cho, Meguro-ku, Tokyo, Japan, *2-24² Okuzawa-cho, Setagaya-ku, Tokyo, Japan.*