NEWS AND NOTICES

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

Personal Items

- Mr. G. J. Anderson of Trinity College, Washington, D. C., was appointed to an Instructorship at the Statistical Laboratory of The Catholic University of America.
- Dr. Joseph Berkson, Chief of the Section of Biometry and Medical Statistics of the Mayo Clinic and Professor of Statistics at the University of Minnesota, has been elected as an Honorary Fellow of the Royal Statistical Society.
- Dr. R. P. Bhargava of Bell Telephone Laboratories, was appointed to a Visiting Assistant Professorship at the Statistical Laboratory of The Catholic University of America.
- Dr. Richard P. Bland has been appointed Assistant Professor in the Department of Mathematical and Experimental Statistics at Southern Methodist University.
- Dr. Charles H. Boll has been appointed Associate Professor in the Department of Mathematical and Experimental Statistics at Southern Methodist University.
- After conferal of his doctorate from the University of Maryland, Dr. Derrill Bordelon joined the London Branch Office of the Office of Naval Research.
- Dr. Ralph A. Bradley, Department of Statistics, the Florida State University, has been elected President-elect and President of the Eastern North American Region of the Biometric Society for 1964 and 1965, respectively.
- Professor H. D. Brunk has been appointed Professor of Statistics and Chairman of the Department of Statistics at the University of Missouri, Columbia, Missouri. He was formerly Professor of Mathematics at the University of California, Riverside.
- Dr. Gregory C. Chow has been appointed head, Economics Research Group, IBM Watson Research Center, Yorktown Heights, New York.
- Arthur Cohen, upon completion of his Ph.D. requirements at Columbia, accepted an Assistant Professorship in Applied and Mathematical Statistics, Rutgers—The State University.
- Dr. Marek Fisz died recently after a short illness. He had been on an extended visit to the United States (most recently serving as Professor of Mathematics at New York University) from the University of Warsaw where he was Professor and Head, Department of Mathematical Statistics.
- Dr. Jean D. Gibbons, formerly of the University of Cincinnati, has taken a position as Assistant Professor of Statistics in the Wharton School, University of Pennsylvania.
- Dr. Randolph R. M. Geoghagen, formerly Research Scientist at System Development Corporation, has accepted a position as Member of the Technical Staff, Aerospace Corporation, El Segundo, California.
 - Dr. John Gurland resigned from the Mathematics Research Center, U. S.

www.jstor.org

Army, University of Wisconsin, to accept a joint Professorship in the Statistics Department and in the Medical School at the University of Wisconsin.

Dr. David Hanson has been appointed Associate Professor of Statistics at the University of Missouri, Columbia, Missouri. He was formerly mathematician with the Sandia Corporation, Albuquerque, New Mexico.

Dr. I. Heller of Stanford University was appointed to a Professorship in the Department of Mathematics at The Catholic University of America.

Upon completion of his doctoral requirements, (the first doctorate conferred through the Rutgers Statistics Center), David Hogben accepted an Assistant Professorship in Applied and Mathematical Statistics, Rutgers—the State University.

Dr. C. H. Kapadia has been appointed Assistant Professor in the Department of Mathematical and Experimental Statistics, Southern Methodist University.

Professor D. A. Kappos of the University of Athens (Greece) was appointed to a Visiting Professorship at the Statistical Laboratory of The Catholic University of America.

Alfred Lieberman, formerly with the Institute for Defense Analysis (WSEG), has taken a position with the Arms Control and Disarmament Agency (ACDA). In his present assignment, he is Assistant Project Manager, Project CLOUD GAP.

Dr. Eugene Lukacs, Director of the Statistical Laboratory at The Catholic University of America, has been elected to ordinary membership in the International Statistical Institute.

Dr. Fredos Papangelou of the University of Athens (Greece) was appointed as Research Assistant at the Statistical Laboratory of The Catholic University of America.

Dr. Minoru Sakaguchi of the University of Electro-Communications in Tokyo is currently visiting the Department of Statistics, George Washington University, teaching and conducting research under the sponsorship of the National Science Foundation.

Dr. I. Richard Savage, formerly of the University of Minnesota, has joined the Department of Statistics, the Florida State University, Tallahassee, Florida as Professor of Statistics.

Dr. Jarnail Singh has accepted the position of Assistant Professor in Ontario Agricultural College, Guelph.

Dr. O. P. Srivastava has joined Seton Hall University as Assistant Professor in the Department of Mathematics.

Dr. William A. Thompson, Jr., previously with the University of Delaware and the Virginia Polytechnic Institute, has been appointed Associate Professor of Statistics in the Department of Statistics, the Florida State University, Tallahassee, Florida.

Dr. V. R. Rao Uppuluri has left the Department of Statistics, Michigan State University to accept an appointment with the Statistics Group of the Mathematics Division at Oak Ridge National Laboratory, Oak Ridge, Tennessee.

Elizabeth H. Yen received her Ph.D. from the University of Minnesota and

has been appointed Associate Statistician in the Department of Experimental Statistics, University of North Carolina at Raleigh.

New Members

The following persons have been elected to membership in the Institute

- Anderson, Erik S., Ph.D., (University of Copenhagen, Denmark); Professor, Aarhus University, Mathematical Institute, Universitetsparken, Aarhus C, Denmark.
- Bain, John C., B.A., (University of Toronto); Manager, Management and Computer Sciences, B. F. Goodrich Company, 500 South Main Street, Akron, Ohio; 57 Byers Avenue, Akron, Ohio.
- Ball, Geoffrey H., Ph.D., (Stanford University); Senior Research Engineer, Stanford Research Institute, Menlo Park, California.
- Barra, Jean Rene, Ph.D., (Ecole Normale Superieure, France); Maitre de Conferences, Université de Grenoble, France: 4 rue P Termier, Grenoble, Isere, France.
- Boswell, Marllyn T., M.S., (Stanford University); Instructor in Department of Statistics, University of Missouri.
- Brown, Morton B., B.S., (McGill University, Canada); Graduate Student in Department of Mathematics, Princeton University.
- Butler, Calvin C., M.S., (Colorado State University); Graduate Student in Department of Statistics, Colorado State University.
- Cehak, Konrad, Ph.D., (University of Vienna, Austria); Meteorologist, Zentralanstalt für Meteorologie und Geodynamik Wien, Hohe Warte 38, Vienna 19, Austria; Wienergrasse 22, Vienna 21, Austria.
- Chakrabarti, Mukunda C., M.S., (Dacca University, East Pakistan); Reader and Head of the Department of Statistics, University of Bombay, India.
- Chernoff, Martin J., B.A., (University of Denver); Reliability Engineer, Douglas Aircraft Company; 3000 Santa Monica Blvd., Santa Monica; 3400 Centinela, Mar Vista 66, California.
- Chitgopekar, Sharad S., M.A., (University of Poona, India); Graduate Student in Department of Statistics, Florida State University.
- Clark, Cherry Ann, Ph.D., (Claremont College, California); Chief Psychologist, Meyers Clinic, 724 South Parkview Street, Los Angeles, California; Post Office Box 304, South Pasadena, California.
- Cornell, C. Allen, Ph.D., (Stanford University); Acting Assistant Professor in Department of Civil Engineering, Stanford University.
- de Kroon, J. P. M., Ph.D., (Ryksuniversiteit Ultrecht, The Netherlands); Deputy Head of Statistics Department, Central Organization for Applied Scientific Research in the Netherlands, The Hague.
- El-Naggar, Abdullah T., B.S., (Ain Shams University, Egypt); Graduate Student, in the Department of Mathematical Statistics, Columbia University; 434 West 120th Street, New York 27, New York.
- Everett, Robert P., M.A., (University of California at Berkeley); Senior Mathematical Engineer, Lockheed Missiles and Space Company, 1111 Lockheed Way, Sunnyvale, California.
- Freedman, Richard J., Student/Research Assistant, Ohio State University.
- Gimon, Jean-Paul, I.C.M., (Ecole Nationale Superieure des Mines de Saint-Etienne, France); Graduate Student in Department of Statistics, Stanford University; 1121 Lincoln Avenue, Palo Alto, California.
- Hamot, Herman B., M.A., (University of Pennsylvania); Research Analyst, Sandoz, Inc., Hanover New Jersey; 10 Evergreen Road, West Caldwell, New Jersey.

- Henz, Paul N., M.S., (University of Wisconsin); Graduate Student in Department of Statistics, University of Wisconsin.
- Hoadley, A. Bruce, M.A., (University of California at Berkeley); Graduate Student/Teaching Assistant in Statistics Department, University of California at Berkeley.
- Howe, Albert S., B.S., (Pennsylvania State University); Reliability Engineer, Lockheed Missiles and Space Company, 1111 Lockheed Way, Sunnyvale, California.
- Hsu, Ben C., M.S., (Oklahoma State University); Graduate Student, Rutgers—The State University; 640 West 139th Street, New York 31, New York.
- Johansen, Søren, B.S., (University of Copenhagen); Amanuesis, Institut for Matemtisk Statistik, Universitetsparken 5, Copenhagen Ø, Denmark.
- Jones, Richard H., Ph.D., (Brown University); Assistant Professor in Department of Statistics, The Johns Hopkins University.
- Joshi, Aravid K., Ph.D., (University of Pennsylvania); Assistant Professor, School of Electrical Engineering, University of Pennsylvania.
- Kimbleton, Stephen R., M.S., (Ohio State University); Systems Engineer, IBM, 447 East Broad, Columbus, Ohio; 4040 North High Street, Columbus 14, Ohio.
- Lederman, Sully C., Chef de Service, Institutional d'Etiedes Demographeques, 25 Avenue F. D. Roosevelt, Paris 8, France.
- Linhart, Peter B., Ph.D., (Columbia University); Member of Technical Staff, Bell Telephone Laboratories, 463 West Street, New York 14, New York.
- Ludwig, Otto, Ph.D., (University of Frankfurt/Main, Germany); Assistant in Department of Statistics, W. G. Kerckhoff-Institut der Max-Planck-Gesellschaft, Bad Nauheim, Germany.
- Marlow, Norman A., M.S., (University of Southern California); Systems Engineer, Bell Telephone Laboratories, Inc., Mountain Avenue, Murray Hill, New Jersey; 171 Main Street, Madison, New Jersey.
- Marschak, Dorothy W., B.A., (Swarthmore College); Graduate Student/Research Assistant, University of California at Berkeley; 138 The Uplands, Berkeley 5, California.
- Mielke, Paul W., Jr., Ph.D., (University of Minnesota); Assistant Professor, Colorado State University, Fort Collins; 705 South Washington, Fort Collins, Colorado.
- Mieter, Duane A., M.S., (University of Wisconsin); Graduate Student/Research Assistant, University of Wisconsin; 407 H Eagle Heights Apts., Madison 5, Wisconsin.
- Miles, Roger E., M.A., (Cambridge University, England); Lecturer in Mathematics, Emmanuel College, Cambridge, England.
- Mokken, Robert J., Ph.D., (University of Amsterdam, The Netherlands); Research Assistant, Institute of Mass Communications—University of Amsterdam.
- Mukheyee, Bishiva N., Ph.D., (University of North Carolina); Visiting Professor, Indiana University, Jeffersonville, Indiana.
- Perilla, Oscar, M.Sc., (Case Institute of Technology); Research Engineer, the Port of New York Authority, 111 Eighth Avenue, New York 11, New York.
- Pfanzagl, Johann, Ph.D., (University of Vienna, Austria); Professor of Statistics, University of Cologne, Germany.
- Ralph, John E., B.A., (University of California at Berkeley); Graduate Student/Teaching Assistant in Department of Statistics, University of California at Berkeley.
- Reinfurt, Donald W., (State University of New York at Buffalo); Graduate Student in Statistics, University of North Caolina.
- Revesz, Pal, Ph.D., (Hungarian Academy of Sciences, Hungary); Associate Professor in Department of Statistics, Michigan State University.
- Robillard, Paul, M.Sc., (University of Montreal, Canada); Graduate Student in Department of Statistics, University of North Carolina.
- Robin, Michael H., Student, City College of New York; 1729 Walton Avenue, Bronx 53, New York.

- Rothenberg, Thomas J., Ph.D., (Massachusetts Institute of Technology); Assistant Professor of Economics, Northwestern University.
- Roussoun, Gert S., B.C., (University of Stellenbosch, Africa); Statistician, Division of Sea Fisheries, Beach Road, Sea Point, Cape Town, South Africa.
- Sakamoto, Takeshi, M.Sc., (Kyushu University, Japan); Assistant, Mathematical Institute, Faculty of Science, Kyushu University, Fukuoka, Japan.
- Sarkadi, Károly, Ph.D., (Hungarian Academy of Sciences, Hungary); Scientific Collaborator, Mathematical Institute of the Hungarian Academy of Sciences, Budapest, Hungary.
- Schellhorn, Jean-Pierre, L.S.M., (Université de Lausanne, Switzerland); Mathematician, IBM Extension Swisse, 7 Avenue du Théâtre, Lausanne, Switzerland; Croix-Rouges 22, Lausanne, Switzerland.
- Sibbald, Garth H., M.S., (Stanford University); Graduate Student in Department of Economics, Stanford University; Box 8162, Stanford, California.
- Singh, Vyendra P., M.A., (Aligarh University, India); Graduate Student, Ohio State University.
- Stene, Jon M., Ph.D., (University of Oslo, Norway); Assistant Head, Department of Statistics, Danish Institute for Educational Research, Emdrupvy 101, Copenhagen NV, Denmark.
- Stigler, Stephen M., B.A., (Carleton College, Minnesota); Graduate Student in Department of Statistics, University of California at Berkeley; 1811 Addison Street, Berkeley 3, California.
- Sylwester, David L., M.A., (Indiana University.); Graduate Student in Statistics, Stanford University.
- Tiao, George C., Ph.D., (University of Wisconsin); Assistant Professor of Statistics, University of Wisconsin.
- Tich, Dao T., I.C.T., (E.N.S. Des Telecommunications, France); Senior Research Engineer-Systems, General Electric Computer Laboratory, Arques Blvd., Sunnyvale, California; 11425 Alford Avenue, Los Altos, California.
- Urquhart, N. Scott, M.S., (Colorado State University); Graduate Fellow in Statistical Laboratory, Colorado State University.
- Van der Laan, Paul, Ph.D., (University of Leiden, The Netherlands); Research Fellow, Mathematical Centre, 2° Boerhaavestraat 49, Amsterdam, The Netherlands.
- Wagner, Terry J., Ph.D., (University of California at Berkeley); Assistant Professor of Electrical Engineering, University of Texas, Austin, Texas.
- Waknis, Mrudulla N., M. A., (University of Bombay, India); Graduate Student/Teaching Assistant in Department of Statistics, Purdue University.
- Waller, Ray A., M.S., (Kansas State University); Graduate Student in Department of Statistics, The Johns Hopkins University.
- Whiston, William B., B.S., (Yale University); Statistical Consultant, Procter and Gamble Company, Post Office Box 599, Cincinnati, Ohio.

JOURNAL OF APPLIED PROBABILITY

The Applied Probability Trust, in association with the London Mathematical Society, is to publish a new international journal devoted to the applications of Probability Theory to the biological, physical, social and technological sciences. The *Journal* will be issued in two half-yearly numbers forming a volume of about 300 pages per annum, starting in May–June 1964. It will include review papers surveying a field of Applied Probability, research papers, and short communications.

Subscriptions for the annual volume of the journal are: for libraries and institutions: U.S. \$12, £stg.4.4.0, £A5.5.0; for individuals belonging to a recognized scientific society: U.S. \$8, £stg.2.16.0, £A3.12.0. A 10% reduction will be made to subscribers whose remittances are received by March 31, 1964. Members of the London Mathematical Society should order their copies of the *Journal* through the Society, from which they will be available at special rates.

Further information can be obtained from the Editor-in-chief, Dr. J. Gani, Department of Statistics, The Australian National University, P.O. Box 4, Canberra, Australia.

STATISTICAL RESEARCH MEMOIRS (VOLUMES I & II)

These two volumes, first issued by the Department of Statistics, University College, London, in 1936–38, have been out of print for some time. In answer to requests they have been reprinted photographically, and are now obtainable on application to the Department of Statistics, University College, Gower Street, London, W.C.1., England. Payment must be made in advance (£1.10.0., or \$4.50, per volume) and checks made payable to University College, London.

SUMMER OFFERINGS IN STATISTICS AT IOWA STATE UNIVERSITY

The Department of Statistics at Iowa State University will offer courses in statistical theory and methods in its two summer sessions in 1964. These courses are planned primarily for graduate students or research workers with limited mathematical backgrounds who wish to use statistical techniques intelligently for application to other fields. In addition, a course on special topics in theoretical or applied statistics may be studied at the graduate level. Senior staff members will be available during most of the summer for consultations on research or special problems. Students may register for either or both of the six-week sessions: June 9—July 17 and July 20—August 27. Courses will be offered both sessions in statistical methods and statistical theory. Experimental Design will be offered first session and Survey Designs second session.

INTERNATIONAL SYMPOSIUM ON MATHEMATICAL PROGRAMMING

An International Symposium on Mathematical Programming, sponsored by the Royal Statistical Society, the Operational Research Society, the British Computer Society, the Institute of Management Sciences and the Association for Computing Machinery (Special Interest Group in Mathematical Programming), will be held at the London School of Economics from 6th to 10th July, 1964. The symposium is intended to cover both the theoretical and practical aspects of programming and related subjects such as network theory. The proceedings will consist of invited surveys of various aspects of the field, research papers, and reports on technical aspects of applications. The proceedings will not be formally published.

Survey papers on various subjects will be presented by the following: E. M. L. Beale (Integer Programming); G. B. Dantzig (The Future of Mathematical Programming); S. Dreyfus (Dynamic Programming); D. R. Faulkerson (Networks); F. Harary (Graphs); H. P. Künzi (Nonlinear Programming); S. Vajda (The Mathematical Background); P. Wolfe (Large Systems).

Further details regarding the programme and connected activities and their cost may be obtained from: Mrs. M. Kinnaird, Secretary, Operational Research Society, 64 Cannon Street, London, E.C.4, to whom also application for tickets should be made. Those planning to attend should make their own travel and hotel arrangements through their local branch of either Thomas Cook & Son Ltd., or the American Express; attendance at the Symposium should be mentioned at the time of making such booking so that the London office can select suitable hotels. Attention is drawn to the fact that this Symposium coincides with the City of London Festival and it would, therefore, be wise to make early hotel bookings.

GRADUATE SUMMER SESSION OF STATISTICS IN THE HEALTH SCIENCES

The Department of Biostatistics, School of Public Health, University of North Carolina is the host institution for the seventh cooperative training program of statistics in the health sciences, to be held June 29 to August 7, 1964. The Summer Session, under a grant from the National Institutes of Health, is offering courses at nearly every academic and experience level. It is designed to meet some of the educational and training needs of those engaged in health and health-related work, and those preparing themselves for such work. The instructors will be Helen Abbey, Paul S. Anderson, Jr., Albert E. Bailey, Byron William Brown, Jr., Theodore Colton, Richard G. Cornell, R. C. Elston, F. M. Hemphill, D. G. Horvitz, E. B. Perrin, Richard D. Remington, M. C. K. Tweedie, and Colin White. Stipends are available to qualified persons. Inquiries should be made to: Summer Session, Department of Biostatistics, School of Public Health, University of North Carolina, Chapel Hill, North Carolina.

DOCTORAL DISSERTATIONS IN STATISTICS, 1963

Listed below are doctorates conferred during 1963 (except where otherwise indicated) 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. Readers are invited to notify the Editor of any omissions from the list.

Adorno, David S., Harvard University, major in statistics, "Stochastic optimization in the theory of control."

Ahuja, Jagdish Chand, University of British Columbia, major in mathematics, "Statistical problems in the study of growth."

- Alam, Khursheed, University of Minnesota, major in statistics, "A two-stage sampling procedure for estimating a common mean."
- Antelman, Gordon R., University of Minnesota, major in statistics, "Bayes decision theory: insensitivity to non-optimal design."
- Atkinson, Glenn Francis, Cornell University, major in biometry, "Designs for sequences of treatments with carry-over effects."
- Berens, Alan P., Purdue University, major in statistics, "On an equilibrium life model for multicomponent systems."
- Bhargava, R. P., Stanford University, major in statistics, "Multivariate tests of hypotheses with incomplete data."
- Bickel, Peter John, University of California, Berkeley, major in statistics, "Asymptotically nonparametric statistical inference in the multivariate case."
- Boes, Duane Charles, Purdue University, major in statistics, "On the estimation of mixing distributions."
- Booker, Aaron, Iowa State University, major in statistics, "Nonlinear estimation."
- Borgman, Leon Emry, University of California, Berkeley, major in statistics, "Stationarity in a Markov chain approximation to the Neyman-Scott clustering model for populations."
- Bowman, Kimiko Osada, Virginia Polytechnic Institute, major in statistics, "Higher moments of maximum likelihood estimators."
- Brown, Barry Wilson, University of California, Berkeley, major in mathematics, "Dynamic programming in finite state discrete time Markov chains."
- Bucy, Richard Snowden, University of California, Berkeley, major in statistics, "Recurrent events for Markov chains."
- Choi, Keewhan, Harvard University, major in statistics, "Analysis of multi-factor experiments based on prior knowledge and relatively little data."
- Christensen, I. F., The Catholic University of America, (1961), major in mathematical statistics, "Some further extensions of a theorem of Marcinkiewicz."
- Cicchinelli, Alexander L., University of Michigan, major in biostatistics, "The composite of two Gaussian distributions of a model for blood pressure distributions in man."
- Clark, Virginia, University of California, Los Angeles, major in biostatistics, "Choice of levels for the several factor design problem."
- Cline, Randall Eugene, Purdue University, major in statistics, "Considerations of a class of linear programming problems."
- Cohen, Arthur, Columbia University, major in mathematical statistics, "Some questions of predicting from a regression function and a hybrid problem on the exponential density."
- Craswell, Keith J., University of Washington, major in mathematics, "Density estimation and estimation of a selection function."
- Das Gupta, Somesh, University of North Carolina, major in statistics, "Some problems in classification."
- Deliyannis, Platon, University of Chicago, major in mathematics, "Measure bundles and group representations."
- Douglas, Alan Wright, Cornell University, major in biometry, "Test of homogeneity of variance for the Latin square and a class of balanced incomplete block designs."
- Dunn, James Eldon, Virginia Polytechnic Institute, major in statistics, "Power characteristics of Kramer's method for analysis of variance of a two-way classification with disproportionate subclass numbers."
- Elashoff, Robert M., Harvard University, major in statistics, "Multivariate two-sample problems with discrete and continuous variables."
- Ericson, William A., Harvard University, major in statistics, "Optimum stratified sampling using prior information."

- Fabius, Jaap, University of California, Berkeley, major in statistics, "Asymptotic beh e.g. of Bayes' estimates."
- Federowicz, Alexander John, Carnegie Institute of Technology, major in mathematics, "A generalized algorithm for solution of a class of non-convex programming problems."
- Fisk, Donald L., Michigan State University, major in statistics, "Quasi-martingales and stochastic integrals."
- Fortier, Jean J., Stanford University, major in statistics, "Contributions to item selection."
- Gastwirth, Joseph L., Columbia University, major in mathematical statistics, "On some problems in the theory of particle counting and the infinitely many server queue."
- Glazer, Harold, Boston University, major in statistics, "Comparison of Student's two-sample t test and the Wilcoxon-Mann-Whitney test for normal distributions with unequal variances."
- Gleser, Leon, Stanford University, major in statistics, "The comparison of multivariate tests of hypothesis by means of Bahadur efficiency."
- Graham, John E., Iowa State University, major in statistics, "Rotation designs for sampling on successive occasions."
- Graves, Glenn W., University of Michigan, major in mathematics, "A complete constructive algorithm for the general mixed linear programming problem that does not require augmentation or perturbation."
- Grosvenor, Dale, Iowa State University, major in statistics, "Uses of integer programming in problems of optimization and their computational aspects."
- Hassanein, Khatab Mohamed, University of North Carolina, major in biostatistics, "Nearly best linear estimate of the mean and standard deviation for frequency distributions encountered in public health."
- Hemmerle, W. J., Iowa State University, major in statistics, "The logical structure of analysis of variance and its implementation on digital computers."
- Høyland, Arnljot, University of California, Berkeley, major in statistics, "Some problems in robust point estimation."
- Ifram, Adnan F., University of Illinois, major in mathematics, "On the asymptotic behavior of densities with applications to several sequential tests of composite hypotheses."
- Kendell, Peter James, North Carolina State College, major in experimental statistics, "Estimation of the mean life of the exponential distribution from grouped data when the sample is censored—with application to life testing."
- Knatterud, Genell, University of Minnesota, major in biostatistics, "An evaluation of certain data from the cancer detection center."
- Kraemer, Helena, Stanford University, major in statistics, "Point estimation in learning models."
- Krause, Gary Frederick, Virginia Polytechnic Institute, major in statistics, "Functional observations: a biostatistical study of growth."
- Krishnaiah, Paruchuri Rama, University of Minnesota, major in statistics, "Simultaneous tests and the efficiency of generalized balanced incomplete block designs."
- Kuzma, Jan W., University of Michigan, major in biostatistics, "A statistical study of various aspects of a battery of clinical neurological tests."
- Leadbetter, Malcolm Ross, University of North Carolina, major in statistics, "On the nonparametric estimation of probability densities."
- Leaverton, Paul, Iowa State University, major in statistics, "Statistical procedures applicable in the analysis of bioassays when the usual assumptions are not fulfilled."
- Lee, Ilbok, Iowa State University, major in statistics, "Bioassay with quantal response observed at different times."
- Lewish, William T., Iowa State University, major in statistics, "Linear estimation in convex parameter spaces."

- Linderholm, Carl E., University of Chicago, major in mathematics, "On some questions in ergodic theory."
- Lucas, William F., University of Michigan, major in mathematics, "On solutions to n-person games in partition function form."
- Luther, Norman Y., State University of Iowa, major in mathematics, "Quadratic forms in normally distributed variables."
- Maitra, Ashok Prasad, University of California, Berkeley, major in statistics, "Dynamic programming for countable state systems."
- Mielke, Paul, University of Minnesota, major in biostatistics, "Variance component estimation and precision for the general two-way classification."
- Mudholkar, Govind Shrikrishna, University of North Carolina, major in statistics, "Some contributions to the theory of univariate and multivariate analysis."
- Myers, Raymond Harold, Virginia Polytechnic Institute, major in statistics, "Orthogonal statistics and some sampling properties of moment estimators for the negative binomial distribution."
- Naus, Joseph I., Harvard University, major in statistics, "Clustering of random points in line and plane."
- Nemeyni, Peter, Princeton University, major in statistics, "Distribution-free multiple comparisons."
- Novick, Melvin Robert, University of North Carolina, major in statistics, "A Bayesian indifference procedure."
- Oodaira, Hiroshi, Michigan State University, major in statistics, "The equivalence of Gaussian stochastic processes."
- Patil, Venkutai H., University of Michigan, major in mathematics, "The Behrens-Fisher distributions."
- Pillai, R. Krishna, University of Michigan, major in mathematics, "Some aspects of statistical inference for mth order Markov processes."
- Plante, André, University of Toronto, major in mathematics, "Random orderlings."
- Portman, Melba Ruth, North Carolina State College, major in experimental statistics, "Estimation of time, age, and cohort effects."
- Purves, Roger Alexander, University of California, Berkeley, major in statistics, "Bi-measurable functions."
- Ramachandran, B., Catholic University of America, (1962), major in mathematical statistics, "On the order and the type of entire characteristic functions."
- Ray, Sudhindra Narayan, University of North Carolina, major in statistics, "Some sequential Bayes procedures for comparing two binomial parameters when observations are taken in pairs."
- Richards, Dale O., Iowa State University, major in statistics, "Incompletely specified models in life testing."
- Rizvi, M. Haseeb, University of Minnesota, major in statistics, "Ranking and selection problems of normal populations using the absolute values of their means: fixed sample size case."
- Roberts, Charles DeWitt, University of North Carolina, major in statistics, "An asymptotically optimal sequential design for comparing several experimental categories with a standard or control."
- Robertson, James, University of Indiana, major in probability, "Multivariate continuous parameter weakly stationary stochastic processes."
- Robinson, Alfred C., University of Michigan, major in instrumentation engineering, "On the second-order properties of the output of certain first- and second-order nonlinear systems with random inputs."
- Robison, Donald E., Ohio State University, (1962), major in mathematics, "Estimates for the points of intersection of two polynomial regressions."

- Rosenberg, Milton, University of Indiana, major in probability, "The spectral analysis of multivariate weakly-stationary stochastic processes."
- Sand, Francis M., Princeton University, major in statistics, "Investigations in residual analysis and a modification of the least square method for multiple regression."
- Sathe, Yashawant, University of North Carolina, (1962), major in statistics, "Studies of some problems in nonparametric inference."
- Schaufele, Ronald A., University of Washington, major in mathematics, "Markov renewal processes."
- Schork, M. Anthony, University of Michigan, major in biostatistics, "A multivariate investigation of the effects of inbreeding on size and growth in man."
- Searls, Donald Turner, North Carolina State College, major in experimental statistics, "On the 'large' observation problem."
- Singh, Jarnail, University of Toronto, major in statistics, "Statistical theory of selection." Sinha, Samirendra Mohan, University of California, Berkeley, major in statistics, "Stochastic programming."
- Smith, Armand Verne, Jr., Virginia Polytechnic Institute, major in statistics, "Comparison of two drugs by multiple stage sampling using Bayesian decision theory."
- Smith, Frank Beckley, Jr., Carnegie Institute of Technology, major in mathematics, "A Bayesian procedure for detection of slippage."
- Stackelberg, Olaf Putrick, University of Minnesota, major in mathematics, "Probabilistic limit theorems arising in arithmetic analysis."
- Tanis, Elliot Alan, State University of Iowa, major in mathematics, "Linear forms in the order statistics from an exponential distribution."
- Tracy, Derrick S., University of Michigan, major in mathematics, "Finite moment formulae and products of generalized k-statistics with a generalization of Fisher's combinatorial method."
- Tsutakawa, Robert K., University of Chicago, major in statistics, "Block up-and-down method in bio-assay."
- Uppuluri, V. R. Rao, University of Indiana, major in statistics, "Part I: Maximum likelihood estimation in finite stationary ergodic Markov chains. Part II: A strong converse to the coding theorem for continuous memoryless channels."
- Van Aarde, Mauritz, Iowa State University, major in statistics, "Covariances of relatives in random mating populations with linkage."
- Venter, Johannes H., University of Chicago, major in statistics, "On stochastic approximation methods."
- Warren, William George, University of North Carolina, major in statistics, "Contributions to the study of spatial point processes."
- Weckwerth, Vernon, University of Minnesota, major in biostatistics, "Imputation of non-response values with special emphasis on hospital and health surveys."
- Welch, Peter D., Columbia University, major in mathematical statistics, "Some contributions to the theory of priority queues."
- White, Robert F., Iowa State University, major in statistics, "Randomization analysis of the general experiment."
- Williams, Trevor, Johns Hopkins University, major in biostatistics, "A stochastic model for incubation periods in infectious diseases."
- Williamson, John Alexander, University of Minnesota, major in mathematics, "Some renewal theorems for positive independent random variables."
- Wittenberg, Helen, University of California, Berkeley, major in statistics, "Limiting distributions of random sums of independent random variables."
- Wonnacott, Thomas H., Princeton University, major in statistics, "A Monte Carlo method of obtaining the power of certain tests of location when sampling from non-normal distributions."

- Wrobleski, William J., University of Michigan, major in mathematics, "Extensions of the Dwyer-MacPhail matrix derivative calculus with applications to estimation problems involving errors-in-variables and errors-in-equations."
- Yahav, Aharon Joseph, University of California, Berkeley, major in statistics, "On optimal stopping."
- Yen, Elizabeth Yu-Yin Hsi, University of Minnesota, major in statistics, "On two-state nonparametric estimation."
- Yniguez, Amador D'Bayan, North Carolina State College, major in experimental statistics, "Some estimation problem of a non-linear supply model implied by a minimum decision rule."
- Zahl, Samuel, Harvard University, major in statistics, "Bounds for the central limit theorem error."
- Zweig, Hans Jacob, Stanford University, major in statistics, "Counter models and applications to detection problems."

PUBLICATIONS RECEIVED

- COALE, Ansley J. and Zelnik, Melvin (1963). New Estimates of Fertility and Population in the United States. Princeton University Press. 186 pp. \$4.00.
- FREEMAN, HAROLD (1963). Introduction to Statistical Inference. Addison-Wesley, Reading, Massachusetts. xiv + 445 pp. \$7.75.
- GREENWALD, WILLIAM I. (1963). Statistics for Economics. Charles E. Merrill Books, Inc., Columbus, Ohio. 366 pp.
- GRÜNBAUM, ADOLF (1964). Philosophical Problems of Space and Time. Alfred A. Knopf, Inc., New York. xi + 448 pp. \$10.75.
- LASALLE, J. P. and Diaz, J. B., eds. (1963). Contributions to Differential Equations, Vol. I. Wiley and Sons, New York. 519 pp. \$16.50.
- Pedoe, Daniel (1963). A Geometric Introduction to Linear Algebra. Wiley and Sons, New York. 224 pp. \$5.95.
- Ryshik, I. M. and Gradstein, I. S. (1963). Tables of Series, Products, and Integrals. Plenum Press, New York. 438 pp. \$15.00.
- Selden, Richart T. (1963). Trends and Cycles in the Commercial Paper Market. National Bureau of Economic Research, New York. 119 pp. \$1.75.
- Shay, Robert P. (1963). New-Automobile Finance Rates, 1924-62. National Bureau of Economic Research, New York. 33 pp. \$.75.
- Experimental Arithmetic, High Speed Computing and Machines (1963), Vol XV of Proceedings of Symposia in Applied Mathematics, American Mathematical Society, Providence. ix + 396. \$9.10.