

NEWS AND NOTICES

JOHN WISHART

Dr. John Wishart, director of the Statistical Laboratory, University of Cambridge, died in a swimming accident at the Port of Acapulco, Mexico, on July 14, 1956. As a tribute to Dr. Wishart, the Institute of Mathematical Statistics, the American Statistical Association, and the Biometric Society sponsored a memorial session on September 9, 1956, at the Detroit meetings. Professor Harold Hotelling delivered an address, "Contributions of John Wishart to Statistics."

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

Personal Items

Sidney Addelman, who received a Master of Arts degree in statistics from the University of Delaware in June, has accepted a research assistantship from Iowa State College where he will continue his studies toward a Ph.D. degree in statistics.

F. J. Anscombe has been appointed Associate Professor in the Department of Mathematics, Princeton University.

Professor George Allen Baker of the University of California, Davis, served as Faculty Research Lecturer for 1955-56. He delivered the fourteenth annual Faculty Research Lecture, on the topic "Search for Structure."

Charles A. Bicking has accepted the position of Manager, Quality Control Branch, Research and Development Division, The Carborundum Company, Niagara Falls, New York. His responsibilities will include the establishment of process quality control in the manufacturing divisions of the company, assessment of product quality, design of experiments in research and development, and operations research.

Richard S. Bingham, Jr., has joined the newly organized Quality Control Branch, Research and Development Division, The Carborundum Company, as Senior Engineer.

Dr. Archie Blake, formerly an Advisory Engineer with Westinghouse Electric Corporation, Baltimore, has accepted an appointment as Systems Staff Mathematician with Bendix Aviation Corporation in Detroit.

Dr. Ernest E. Blanche is now president and senior research scientist of Ernest E. Blanche and Associates. The firm has offices at Rockville and Silver Spring, Maryland.

Robert C. Burton, mathematician in the Statistical Engineering Laboratory of the National Bureau of Standards, has been awarded \$300 in recognition of contributions to the theory of experimental design. The award was made possible by the "Special Act or Service" category of the Incentive Awards Act. Mr. Burton is now on educational leave from NBS, doing graduate work at the University of North Carolina.

Richard G. Cornell, who received his Ph.D. degree in statistics from Virginia Polytechnic Institute in June, is now a statistician in the Commissioned Corps of the Public Health Service. He is stationed at the Communicable Disease Center, Atlanta, Georgia.

Assistant Professor Louis J. Cote has left Purdue University to take a position at Syracuse University.

Donald P. Gaver, Jr., received the Ph.D. degree in mathematics from Princeton University in June, 1956. He is now employed by the Westinghouse Research Laboratory, Pittsburgh 35, Pennsylvania.

Dr. S. G. Ghurye has accepted an assistant professorship with the Committee on Statistics, University of Chicago, commencing in October, 1956.

William Gomberg, director of the Management Engineering Department of the International Ladies' Garment Workers' Union and adjunct professor of industrial engineering at Columbia University, has been appointed professor of industrial engineering at Washington University.

Shanti S. Gupta has received his Ph.D. degree in statistics from the University of North Carolina and is now working with the Statistical Group of the Bell Telephone Laboratories, Allentown, Pennsylvania.

Dr. G. C. Helmstadter, formerly an Associate in Research of the Educational Testing Service, Princeton, New Jersey, has joined the faculty of Colorado A and M College as Psychometrist in the Office of Student Affairs and Assistant Professor in the Department of Psychology and Education.

Robert G. Hoffmann has been appointed as Statistician for the newly organized Commission on Professional and Hospital Activities, Inc.

W. H. Horton is now Manager of the Experimental Design and Statistical Analysis Section of the Materials Engineering Department, Westinghouse Electric Corporation.

Dr. Stanley Isaacson has resigned his position as a Senior Statistician with the Semiconductor Department of Westinghouse Electric Corporation in order to accept a position as Sales Manager with Gendler Stone Products Company, Des Moines, Iowa. He has also been appointed Lecturer in Statistics in the Community College of Drake University.

Eugene Lukacs has resigned from the Office of Naval Research to accept an appointment as professor of mathematics at the Catholic University of America.

John H. MacKay (Ph.D., University of North Carolina, 1956) has accepted a position as associate professor in the School of Industrial Engineering, Georgia Institute of Technology, Atlanta, where he will also do statistical work in the Engineering Experiment Station.

W. G. Madow of the University of Illinois will be at the Center for Advanced Study in the Behavioral Sciences, Stanford, California, during 1956-57.

Margaret Martin has returned to her position as Associate Professor of Biostatistics in the Department of Preventive Medicine and Public Health at Vanderbilt University after spending the academic year studying with the Committee on Statistics at the University of Chicago.

Dr. Irwin Miller, who received his Ph.D. degree in statistics at Virginia Polytechnic Institute, is now with the Applied Research Laboratory, United States Steel Corporation, in Monroeville, Pennsylvania.

Joseph M. Moser is now teaching at St. Louis University while working on a Ph.D. degree.

Dr. Mervin E. Muller of the Department of Mathematics, Cornell University, has accepted a position with the Scientific Computing Center of the International Business Machines Corporation, New York, New York.

Lt. L. M. Noel, USN, has been transferred from Princeton University to duty as executive officer of the U.S.S. *Adroit* operating out of Charleston, South Carolina.

Jean Roberts, former Director of Public Health Records and Statistics of the Minneapolis Health Department, is now Assistant Chief, Division of Research and Special Studies, Office of Vocational Rehabilitation, Department of Health, Education and Welfare.

Daniel E. Sands has resigned from the position of statistician with the Squibb Institute for Medical Research to accept the position of statistician with the Applied Research Laboratory, United States Steel Corporation, Monroeville, Pennsylvania.

Professor Morris Skibinsky, of Purdue University, will spend the 1956-57 academic year at Michigan State University as Visiting Assistant Professor.

Arthur Stein, formerly with the Ordnance Communication Command at Joliet, Illinois, is now a Principal Research Engineer with the Cornell Aeronautical Laboratory in Buffalo, New York.

Zenon Szatrowski, Chairman of the Statistics Department, School of Business Administration, University of Buffalo, is on leave for the period 1955-1957. His present position is that of Staff Consultant at the Scientific Computing Center, International Business Machines Corporation. He is working on the application of electronic computers to statistical problems.

Robert J. Taylor has accepted a position as Mathematical Statistician in the Biometry Section, National Cancer Institute, NIH, Bethesda, Maryland.

Dr. John E. Walsh is now with the Military Operations Research Division, Lockheed Aircraft Corporation, Burbank, California.

Oscar Wesler, formerly Acting Assistant Professor of Statistics at Stanford University after receiving his Ph.D. degree in mathematical statistics, has been appointed Assistant Professor of Mathematics at the University of Michigan.

John W. Wilkinson received his Ph.D. degree in statistics in June, 1956 from the University of North Carolina and has accepted a position as Assistant Professor of Mathematics at Queen's University, Kingston, Ontario, Canada.

David M. G. Wishart has been appointed Lecturer in Mathematical Statistics at the University of Aberdeen, Scotland, and will take up his duties on July 1, 1956.

New Members

The following persons have been elected to membership in the Institute

May 16, 1956 to August 15, 1956

- Arnaiz Vellando, Gonzalo**, Ph.D. (Universidad de Madrid), Profesor adjunto de la Facultad de Ciencias Económicas, Universidad de Madrid, *Amnistia, 12.—Madrid, Spain.*
- Bailey, J. H.**, B.S. (University of Rhode Island), Graduate Assistant, Mathematics Department, University of Utah, *1227 East Third South, Salt Lake City, Utah.*
- Barlow, Richard Eugene**, M.A. (University of Oregon), Graduate Assistant, Department of Mathematics, University of Washington, Seattle 5, Washington.
- Béjar, Juan**, D.C.M. (Universidad de Madrid), Profesor de Métodos Estadísticos, Escuela de Estadística de la Universidad de Madrid, San Bernardo No. 49, Madrid, Spain.
- Beneš, Václav Edvard**, Ph.D. (Princeton University), Member of Technical Staff, Bell Telephone Laboratories, Murray Hill, New Jersey.
- Benvenuto, Andrew A.**, M.A. (Syracuse University), Graduate Teaching Assistant, Mathematics Department, University of Illinois, *115 Pleasant Street, Hartford, Connecticut.*
- Bloemena, A. R.**, M.E. (Institute of Technology, Delft, Holland), Research Fellow, Mathematical Centre, Amsterdam, Holland, *Boterdiepstraat 54^I, Amsterdam Z-2, Holland.*
- Blumenthal, Saul**, B.A. (Central High School of Philadelphia), Student, Cornell University, Sibley School of Mechanical Engineering, *313 S. 22nd St., Philadelphia 3, Pennsylvania.*
- Brennan, D. G.**, B.S. (Massachusetts Institute of Technology), Staff Member, Lincoln Laboratory and Graduate Student, M.I.T., *300 Westgate West, Cambridge 39, Massachusetts.*
- Brown, D. M.**, B.A. (University of Toronto), Graduate Student, University of Toronto, *73 St. George Street, Toronto, Ontario, Canada.*
- Calhoun, Carolyn, M.**, B.A. (University of Alabama), Graduate Student with Assistantship, Psychology Department, University of Alabama, *Box 5331, University, Alabama.*
- Campbell, Loudon Lee**, B.S. (University of Pittsburgh), District Coordinator, Parke, Davis and Company, Department of Clinical Investigation, Joseph Campau at the River, Detroit, Michigan.
- Carlson, C. Henry**, M.A. (University of Illinois), Research Analyst, Douglas Aircraft Company, Santa Monica, California, *866 Haverford, Apt. 10, Pacific Palisades, California.*
- Carpenter, J. A.**, M.A. (University of North Carolina), Research Engineer, Melpar Inc., Boston, Massachusetts, *10 Forest St., Apt. 16, Cambridge 40, Massachusetts.*
- Carr, Charles, R.** M.I.A. (Columbia University), Graduate Student and Teaching Assistant, Departments of Statistics and Economics, Stanford University, *2084 Harvard Street, Palo Alto, California.*
- Chapman, Herman Hollis**, Ph.D. (Columbia University), Professor of Business Statistics, University of Alabama, University, Alabama.
- Cohen, Leonard**, B.S.S. (College of the City of New York), Teaching Lecturer, College of the City of New York, *1055 Wheeler Avenue, Bronx 72, New York.*
- Collier, Raymond Oliver, Jr.**, Ph.D. (University of Minnesota), Assistant Professor of Education, University of Minnesota, *1884 N. Oxford St., St. Paul 13, Minn.*
- Constantine, Alan Graham**, B.S. (University of Western Australia), Research Officer, Division of Mathematical Statistics, C.S.I.R.O., *36 Hardy St., Canterbury, N.S.W., Australia.*
- Crystal, Eugene**, A.B. (William Jewell College), Mathematician in charge of computing laboratory, Textile Research Institute, Princeton, New Jersey, *25 Witherspoon Street, Princeton, New Jersey.*
- Cuttle, Yvonne, G. M. G. (Mrs. P. M.)**, M.A. (University of British Columbia), Graduate Student, University of Oregon, Eugene, Oregon.

- Dalton, Jonas, M., A.B.** (George Washington University), Graduate Student, Virginia Polytechnic Institute, Blacksburg, Virginia, *204 Roanoke St., Blacksburg, Virginia.*
- Davis, Willis L., B.S.** (Howard University), Acting Group Leader, Statistical Services, Research and Advanced Development Division, AVCO Manufacturing Corporation, Stratford, Connecticut, *1501 Seaview Avenue, Bridgeport, Connecticut.*
- Dick, Ronald S., B.S.** (Queen's College), Assistant in Mathematical Statistics, Columbia University, and Mathematical Statistician, U.S. Census Bureau, Washington, D. C., *84-66 250th St., Bellerose 26, New York.*
- Dresner, A. Joseph, M.A.** (New York University), Statistician, Board of Education, City of New York *161-30 Jewel Ave., Flushing 65, Long Island, New York.*
- Dunn, Olive Jean (Mrs. R. L.), M.A.** (University of California at Los Angeles), Teaching Assistant, U.C.L.A. School of Business Administration, *404 9th St., Manhattan Beach, California.*
- Eeden, Constance van, dra** (University of Amsterdam), Research Fellow, Mathematical Centre, Statistical Department, *Edisonstraat 9^{II}, Amsterdam, Holland.*
- Elmaghraby, Salah Eldin, A., M.Sc.** (Ohio State University), Research Assistant, Cornell University, and Graduate Student, Industrial Engineering, Cornell University, *409 Eddy St., Ithaca, New York.*
- Elteren, Ph. van, M.S.** (University of Amsterdam), Sub-chief of the Statistical Department, Mathematical Centre, *Ritzema Bosstraat 38^I, Amsterdam O, Netherlands.*
- Ferrer Martin, Sebastian, L.C.E.** (Universidad de Madrid), Profesor de Técnica del Muestreo, Jefe de la Sección de Metodología, Madrid, *Sagunto, 3.—Madrid, Spain.*
- Fetters, William B., B.S.** (Indiana University), Analytical Statistician, U.S. Naval Powder Factory, Quality Control Department, Indian Head, Maryland, *122 Seneca Drive, Forest Heights, Maryland.*
- Fossum, R. R., M.S.** (University of Oregon), Research Fellow, Department of Mathematics, University of Oregon, *Electronic Defense Laboratory, P.O. Box 205, Mountain View, California.*
- Fukuda, Yoichiro, M.A.** (University of California at Los Angeles), Research Mathematician, Engineering Department, University of California at Los Angeles, Los Angeles 24, California.
- Gafarian, A. V., B.S.** (University of Michigan), Student and Teaching Assistant, Department of Mathematics, University of California at Los Angeles, *5386 Dawes Ave., Culver City, California.*
- Gani, J. M., Ph.D.** (Australian National University), Nuffield Research Fellow, Statistical Laboratory, The University of Manchester, Manchester 13, England.
- Gardiner, Donald A., Ph.D.** (North Carolina State College), Member, Mathematics Panel, Oak Ridge, National Laboratory, Post Office Box P, Oak Ridge, Tennessee.
- Gentry, Charles J., B.S.** (University of Florida), Graduate Student, University of Florida, *Box 2003, University Station, University of Florida, Gainesville, Florida.*
- Geoghagen, Randolph R. M., M.A.** (Columbia University), Research Assistant, Popin Cyclotron Laboratory, Columbia University, *319 East 162nd St., Bronx 56, New York.*
- Gephart, L. S., Ph.D.** (University of Florida), Mathematical Statistician, Design of Experiment Unit, Research and Development Division, Office, Chief of Ordnance, D. A., Washington 25, D. C.
- Gershetski, George William, B.M.E.** (General Motors Institute), Student, Cornell University, *127 College Avenue, Ithaca, New York.*
- Gessford, John E., M.S.** (Stanford), Graduate Student, Statistics Department, Stanford University, *637 Alvarado, Stanford, California.*
- Gorman, T. P., M.S.** (Fordham College), Senior Programmer, New York Scientific Computing Center, International Business Machines, *590 Madison Ave., New York, New York.*

- Groves, John Ellis, Jr., B.S. (Arkansas State College), Graduate Fellow, St. Louis University, 359 N. Whittier, St. Louis, Missouri.
- Halter, Albert N., Ph.D. (Michigan State University), Graduate Student and Research Instructor, Michigan State University, 2276 Hulett Road, Okemos, Michigan.
- Haynam, George E., M.S. (Case Institute of Technology), Research Assistant, Project Doanbrook, Case Institute of Technology, 10900 Euclid Avenue, Cleveland, Ohio.
- Hemelrÿk, F., Dr.Sc. (University of Amsterdam), Professor in Statistics, Technical University, Delft, and Chief of Statistical Consultation, Mathematical Centre, Amsterdam, Weesperzijde 89th, Amsterdam (O), Netherlands.
- Hetz, Wolfgang, Ph.D. (University of Göttingen), Adviser in Statistical Problems, Deutsche Forschungsgemeinschaft, Calsostr. 20, Göttingen, Germany.
- Hogben, David, B.A. (University of Minnesota), Inspection Development Engineer, Western Electric Co., 100 Central Ave., Kearny, New Jersey.
- Howes, David R., A.B. (Amherst), Staff Statistician, Chemical Corps Engineering Command, Army Chemical Center, Maryland.
- Ikeda, Hiroshi, B.P. (University of Tokyo), Graduate Student, Division of Research in Humanities, University of Tokyo, 845 Izumichô, Suginamiku, Tokyo, Japan.
- Kahn, Paul Markham, B.S. (Stanford), Student, Stanford University, 76 Manzanita Road, Fairfax, California.
- Keys, Phillis Allen, B.S. (Wayne University), Computer, Ames Laboratory, Atomic Energy Commission, and Graduate Student, Statistics Department, Iowa State College, 510 Forest Glen, Ames, Iowa.
- Kopka, William E., M.A. (Syracuse University), Teaching Assistant, Mathematics Department, Syracuse University, Syracuse 10, New York.
- Lechner, J. A., B.S. (Carnegie Institute of Technology), Graduate Student, Princeton University, Fine Hall, Box 708, Princeton, New Jersey.
- Leiman, John M., Ph.D. (University of Washington), Chief, Statistical Methodology and Analysis Branch, Air Force Personnel and Training Research Center, Box 1557, Lackland Air Force Base, San Antonio, Texas.
- Lenthall, Jerry, B.A. (Swarthmore College), Graduate Assistant, Department of Statistics, Stanford University, Box 1431, Stanford, California.
- Lieberman, Alfred, M.A. (University of Southern California), Mathematical Statistician, Bureau of Ships, Department of the Navy, Washington 25, D. C., 5019 Strathmore Ave., Kensington, Maryland.
- Lindgren, B. W., Ph.D. (University of Minnesota), Mathematics Instructor, University of Minnesota, 32 Orlin Avenue S.E., Minneapolis 14, Minnesota.
- McCue, Edmund B., M.S. (University of Michigan), Graduate Assistant, State University of Iowa, Iowa City, Iowa, 306 East Jefferson St., Iowa City, Iowa.
- McLynn, James M., M.A. (George Washington University), Research Analyst, Army Logistics Project GWV, Washington, D. C., 7417 17th Ave., West Hyattsville, Maryland.
- Mackropoulos, C. L., M.A. (University of Illinois), Assistant, Mathematics Department, University of Illinois, % Mrs. Mary E. Bourke, 7724 South Marquette, Chicago, Illinois.
- Magness, T. A., M.A. (University of California at Los Angeles), Mathematician, Ramo-Wooldridge Corporation, 8820 Bellanca Ave., Los Angeles 45, California, 1042½ S. Serano Ave., Los Angeles 6, California.
- Malan, D. J., M.A. (Columbia University), Assistant Actuary, South African National Life Assurance Company, Sanlamhof, C.P., Union of South Africa, % SANLAM, Sanlamhof, C.P., Union of South Africa.
- Matthes, T. K., B.S. (California Institute of Technology), Graduate Student, California Institute of Technology, 1201 E. California St., Pasadena 4, California.
- Merrill, Robert B., B.S. (Purdue University), Quality Control Statistician, Whirlpool-Seegar Corporation, Estate Division, Hamilton, Ohio, 5727 Marmion Lane, Cincinnati 13, Ohio.

- Miller, D. D., B.A. (University of Florida), Graduate Assistant, Department of Economics, University of Florida, *Box 2793, University Station, Gainesville, Florida.*
- Mills, Donald F., M.E. (University of Washington), Graduate Student, University of Washington, *5015 16th Ave., N. E., Seattle 5, Washington.*
- Mohan, Chandra, M.Sc. (Agra University), Research Scholar, Columbia University, % Mr. H. D. Khandelwal, *54 Lanercost Road, London S. W. 2, England.*
- Morgenthaler, George W., Ph.D. (University of Chicago), Group Leader, Institute for Air Weapons Research, University of Chicago, *3827 Woodside Avenue, Hollywood, Illinois.*
- Moursund, Andrew F., Ph.D. (Brown University), Professor and Head of Department of Mathematics, University of Oregon, Eugene, Oregon.
- Neuwirth, Lee, M.A. (Columbia University), Lecturer, Columbia College, *Box 45, Hamilton Hall, Columbia College, Morningside Heights, New York, New York.*
- Oliveira, Augusto T., B.A. (Portuguese Agricultural Research Station), Statistician, Portuguese Agricultural Research Station, *Estacaõ Agronomica Nacional, Sacaveur (Lisbon), Portugal, 676 Pammel Court, Ames, Iowa.*
- Otsuka, Jun, M.A. (Tokyo University), Student of Doctor Course, Laboratory of Animal Anatomy, Faculty of Agriculture, Tokyo University, *No. 17, 2-Chome, Kaname-cho, Toshima-ku, Tokyo-to, Japan.*
- The Parke Mathematical Laboratories, Inc. Applied Mathematicians, has moved from Concord to larger quarters in the country, *Bedford Road, Carlisle, Massachusetts.*
- Perry, N. C., Ph.D. (University of Southern California), Associate Professor, Alabama Polytechnic Institute, *135 Cedar Crest Drive, Auburn, Alabama.*
- Rappaport, Erle, M.S. (University of Michigan), Project Statistician, Aeronautical Radio, Inc., Washington, D. C., *713 Center Hunting Towers, Alexandria, Virginia.*
- Reed, Frank C., B.S. (University of Redlands), Graduate Student, University of California at Los Angeles, Westwood, California, *6150 S. Sepulveda, Culver City, California.*
- Rodine, Robert H., B.S. (State Teacher's College, Pennsylvania), Graduate Research Assistant, Statistical Laboratory, Purdue University, Lafayette, Indiana.
- Rogers, Gerald S., M.A. (University of Washington), Half-time Instructor, State University of Iowa, Iowa City, Iowa.
- Runnenburg, J. Theo, Ph.D. (University of Amsterdam), Co-worker, Statistics Department, Mathematical Centre, Amsterdam, *Overtoom 417, Amsterdam (West), Holland.*
- Russell, Thomas S., Ph.D. (Virginia Polytechnic Institute), Assistant Professor, Virginia Polytechnic Institute, *1415 Burruss Blvd., Blacksburg, Virginia.*
- Selig, Seymour M., B.M.E. (Rensselaer Polytechnic Institute), Engineering Statistician, Staff Statistician, Chemical Corps Engineering Command, Army Chemical Center, Maryland.
- Seltzer, Frederic, B.S. (City College of New York), Actuarial Student, Metropolitan Life Insurance Company, New York City, *23 Kerrigan St., Long Beach, New York.*
- Smith, Robert L., M.S. (Virginia Polytechnic Institute), Graduate Student, Virginia Polytechnic Institute, *University Club, Blacksburg, Virginia.*
- Smith, Thaddeus L., M.A. (Columbia University), *625 W. 135th Street, New York, New York.*
- Stanley, Julian C., Jr., Ed.D. (Harvard University), Associate Professor of Education, University of Wisconsin, *305 S. Owen Drive, Madison, Wisconsin.*
- Stinson, Fannie A., M.S. (Howard University), Mathematician, U. S. Navy Hydrographic Office, Washington 25, D. C., *3816 10th Street, N. W., Washington 11, D. C.*
- Takeuchi, Kei, B.E. (Tokyo University), Graduate Student, Tokyo University, *4-552 Maba shi, Suginami-ku, Tokyo, Japan.*
- Testerman, Jack., B.A. (Oklahoma A. and M. College), Graduate Assistant, Oklahoma A. and M. College, Stillwater, Oklahoma, *115 E. Boeing Drive, Midwest City, Oklahoma.*
- Thomas, Earl A., B.S. (Columbia University), Senior Reliability Analyst, Research and Advanced Development Division, AVCO Manufacturing Corporation, Stratford, Connecticut, *55 Ocean Avenue, Lordship, Connecticut.*

- Thomas, G. B., Jr.**, Ph.D. (Cornell University), Associate Professor and Executive Officer, Department of Mathematics, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.
- Urbanik, John G.**, A.B. (University of Rochester), Systems Engineer, Republic Aviation Corporation, Farmingdale, New York, *108 Rockville Centre Parkway, Oceanside, New York.*
- Ury, Hans K.**, A.B. (University of California), Student and Research Assistant, Department of Statistics, University of California, Berkeley, California.
- Ward, Joe H., Jr.**, Ph.D. (University of Texas), Research Psychologist, Air Force Personnel and Training Research Center, Personnel Research Laboratory, Lackland Air Force Base, San Antonio, *315 Palm Drive, San Antonio, Texas.*
- Wiesen, J. M.**, M.S. (Iowa State College), Supervisor, Statistical Division, Sandia Corporation, Albuquerque, *1609 Cagua Drive, N. E., Albuquerque, New Mexico.*
- Yonezawa, Shingo**, B.E. (University of Tokyo), Graduate Student, Department of Applied Physics, Faculty of Engineering, University of Tokyo, Hongo, Tokyo, Japan.
- Yukihide, Okano**, B.E. (Tokyo University), Graduate Student, Tokyo University, *56 Otsuka-machi Bunkyo-ku, Tokyo, Japan.*
- Zetterberg, Lars-Henning**, L.T. (Royal Institute of Technology, Stockholm), Research Engineer, Research Institute of National Defense, Stockholm, Sweden, *5536 Dorchester Ave., Chicago 37, Illinois.*
- Zoellner, J. Arthur**, M.S. (Iowa State College), Experiment Design and Analysis Statistician, General Engineering Laboratory, General Electric Company, Schenectady, New York.
- Zolczynski, Stephen J.**, B.S. (University of Alabama), Tabulation Project Planner, Officer Education Research Laboratory, AFPTRC, Maxwell Air Force Base, Alabama, *2228 St. Charles Avenue, Montgomery, Alabama.*
- Zoraa Terol, Procopio**, D.C.M. (Universidad de Madrid), Profesor adjunto de Estadística Matemática, Universidad de Madrid, *Avda. Aureliano Ibarra, 1, Alicante, Spain.*

Preparation of Concise Tables for Statisticians Now Underway

A Team of statisticians and computers is working on a research project organized and directed by Dr. K. C. S. Pillai, UN Senior Statistical Advisor to the Statistical Center, University of the Philippines. The project involves the preparation of some new statistical tables which will be useful for tests of hypotheses in multivariate analysis. These tables will facilitate tests of equality between variate means of several multivariate populations. They will also be useful in tests of equality of dispersion matrices in two multivariate populations, and of the independence of two sets of variates which follow the multivariate normal law. It is hoped that these tables may be completed shortly to render them available to statisticians within the current year. These tables, along with some others used for tests dealing with univariate problems, will be issued by the Statistical Center in a report edited by Dr. Pillai and entitled *Concise Tables for Statisticians*.

Postdoctoral Study in Statistics

Awards for study in statistics by persons whose primary field is not statistics but one of the physical, biological, or social sciences to which statistics can be

applied are offered by the Committee on Statistics of the University of Chicago. The awards range from \$3,600 to \$5,000 on the basis of an eleven month residence. The closing date for application for the academic year 1957-8 is February 15, 1957. Further information may be obtained from the Committee on Statistics, Eckhart Hall, University of Chicago, Chicago 37, Illinois.

Preliminary Actuarial Examinations Prize Awards

The winners of the prize awards offered by the Society of Actuaries to the nine undergraduates ranking highest on the score of Part 2 of the 1956 Preliminary Actuarial Examination are as follows:

First Prize of \$200

Pratt, Richard L.	Washington University
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Additional Prizes of \$100 each

Brillinger, David R.	University of Toronto
Earle, Clifford J., Jr.	Swarthmore College
Kaplan, Stanley	Cornell University
Mosher, Robert E.	Kenyon College
Riehm, Carl R.	University of Toronto
Rubin, Jerrold	Columbia University
Schweitzer, Paul A.	Holy Cross College
Soderquist, George D.	Drake University

The Society of Actuaries has authorized a similar set of nine prizes for the 1957 examinations on Part 2.

The Preliminary Actuarial Examinations consist of the following three examinations:

Part 1. Language Aptitude Examination.

(Reading comprehension, meaning of words and word relationships, antonyms, and verbal reasoning.)

Part 2. General Mathematics Examination.

(Algebra, trigonometry, coordinate geometry, differential and integral calculus.)

Part 3. Special Mathematics Examination.

(Finite differences, probability and statistics.)

The 1957 Preliminary Actuarial Examinations will be prepared by the Educational Testing Service under the direction of a committee of actuaries and mathematicians and will be administered by the Society of Actuaries at centers throughout the United States and Canada on May 15, 1957. The closing date for applications is April 1, 1957.

The Society of Actuaries
208 South LaSalle Street
Chicago 4, Illinois

Quality Control and Applied Statistics Abstract Service

Interscience Publishers, Inc. announces the inauguration of **QUALITY CONTROL AND APPLIED STATISTICS ABSTRACTS**, a *monthly loose-leaf abstract service* covering the world literature on Quality Control, Operations Research and Industrial Applications of Statistical Methods of all kinds. More than 400 journals will be scanned, for articles that present new information in the field, and the abstracts will be sufficiently comprehensive to show the significant contribution of each article, so that it will usually be unnecessary to consult the original paper. It will consist of one volume of about 1,000 pages yearly, divided among 12 issues, beginning in June 1956. The subscription price is \$60.00 per volume.

Research Fellowships in Psychometrics

Princeton, N. J.: The Educational Testing Service is offering for 1957-58 its tenth series of research fellowships in psychometrics leading to the Ph.D. degree at Princeton University. Open to men who are acceptable to the Graduate School of the University, the two fellowships each carry a stipend of \$2,500 a year and are normally renewable. Fellows will be engaged in part-time research in the general area of psychological measurement at the offices of the Educational Testing Service and will, in addition, carry a normal program of studies in the Graduate School. Suitable undergraduate preparation may consist either of a major in psychology with supporting work in mathematics, or a major in mathematics together with some work in psychology. However, in choosing fellows, primary emphasis is given to superior scholastic attainment and demonstrated research ability rather than to specific course preparation. The closing date for completing applications is January 4, 1957. Information and application blanks will be available about October 1 and may be obtained from: Director of Psychometric Fellowship Program, Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

Summer Job Opportunities at the National Bureau of Standards

The Junior Scientist-Engineer program, open primarily to sophomores and juniors, is designed to prepare especially well qualified students majoring in the physical sciences, mathematics and engineering, for a future professional career at the National Bureau of Standards. Approximately 160 college students participate in this summer program each year with approximately 40 universities represented in the group. The program is a work-study plan. Students who meet program requirements are carried on a "leave without pay" status during the school year. With the exception of the GS-1 level, selections are made from Civil Service registers which are established as a result of the Student Trainee examination.

The GS-1 group consists of selected high school graduates who have distinguished themselves in the physical sciences and engineering via the Westinghouse Science Talent Search or Science Honors on a national basis. The students participate in a planned program of orientation carefully supervised on-the-job training assignments, and discussions with trainee advisors who are appointed from each technical division.

Students interested in this program should watch for the Civil Service Commission's Student Trainee examination announcement generally posted on college bulletin boards sometime during fall or early winter.

NRC-NBS Research Associateships

Research associateships, supported by the National Bureau of Standards and awarded on recommendations of the National Academy of Sciences—National Research Council, are offered to provide young investigators of unusual promise and ability the opportunity for basic research in various branches of the physical and mathematical sciences. These associateships are open only to citizens of the United States and are tenable at the National Bureau of Standards in Washington, D. C. Applicants must have the Ph.D. or Sc.D. degree, or their equivalent. The term of the appointment is for one calendar year. It is expected that approximately 10 awards may be made in a total of fourteen fields, of which the following are of particular interest to mathematicians: Pure and Applied Mathematics; Applied Mathematical Statistics; Numerical Analysis; Statistical Mechanics. Awards will be made about April 1, 1957. Appointments will be for one year. The annual gross stipend will be \$7035 and will be subject to income tax. Requests for application forms and for additional information about requirements for applications should be addressed to the Fellowship Office, National Academy of Sciences—National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D. C. *Applications for the academic year 1957–1958 must be received in the Fellowship Office no later than January 11, 1957.*

International Travel Announcement

The National Science Foundation will award individual grants to defray partial travel expenses for a limited number of American scientists participating in the following international congresses: 30th Session of the International Statistical Institute; Congress of the International Union of the Scientific Study of Population. These congresses are scheduled to meet in Stockholm, Sweden, August 8 to 15, 1957. Application blanks may be obtained from the National Science Foundation, Washington 25, D. C. *Completed application forms must be submitted by March 1, 1957.*