NEWS AND NOTICES

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

Personal Items

Allan G. Anderson has resigned his position as Professor and Head of the Department of Mathematics at Western Kentucky State College to accept the position of Professor and Chairman of the Department of Mathematics at Upsala College, East Orange, New Jersey.

Richard E. Barlow of the University of California, Berkeley, is on a year leave of absence at the Boeing Scientific Research Laboratories in Seattle, Washington.

Dr. U. N. Bhat has accepted a one year appointment as Assistant Professor in the Department of Statistics, Michigan State University, as of September 1965.

John J. Gart has been appointed mathematician in the Mathematical Statistics and Applied Mathematics Section, Biometry Branch, National Cancer Institute. He was formerly Associate Professor of Biostatistics and Statistics at Johns Hopkins University.

Evan Johnson, Jr., Professor of Mathematics at Pennsylvania State University, died on July 13, 1965.

Dr. Madan L. Puri has been promoted to Associate Professorship of Mathematical Statistics in the Courant Institute of Mathematical Sciences, New York University.

Professor P. K. Sen will spend the academic year 1965–66 as a visiting Assistant Professor, Department of Biostatistics, School of Public Health, University of North Carolina, Chapel Hill.

New Members

Aitkin, Murray Alan, B.Sc., (Sydney University); Visiting Assistant Professor, Department of Statistics, Virginia Polytechnic Institute.

Alanen, Jack D., M.S., (Case Institute of Technology); Graduate Student, Department of Statistics, Yale University.

Ali, Mohammad Ashraf, M.S., (Dacca University, Pakistan); Graduate Student, Institute of Statistics, Texas A&M University.

Anderson, Gerald R., Ph.D., (The Catholic University of America); Instructor, The Catholic University of America.

Astle, William R., M.A., (University of Illinois); Graduate Student/NIH Fellow, Statistical Laboratory, Colorado State University.

Atkinson, Gilbert A., M.S., (University of Washington): Statistical Analyst, University of Washington Bureau of Testing; *3749 University Way, N.E., Seattle, Washington 98105.*

Atwood, Corwin L., A.B., (Princeton University): Graduate Student, Department of Mathematics, Cornell University.

Battiste, Edward L., M.E.S., (North Carolina State University); Graduate Student, North Carolina State University; *3451 Redbud Lane, Raleigh, North Carolina.*

Bauer, Rainald K., Dipl.Math., (University of Munich); Verein Deutscher Eisenhüttenleute, Enegie und Betriebswirtschaftsstelle, 4 Düsseldorf, Breide Strafe 27.

Berry, Donald A., B.A., (Dartmouth College); Graduate Student, Yale University.

Bhattacharya, Rabindra Nath, M.Sc., (University of Calcutta); Graduate Student, Department of Statistics, University of Chicago; *1414 E. 59th Street, Chicago, Illinois 60637.*

Biggadike, Robert H., M.Sc., (University of Arkansas); Graduate Student/Teaching Assistant, University of Colorado; *728 10th Street, Boulder, Colorado 80302.*

Biggs, Jean F., B.S., (George Washington University); Graduate Student, George Washington University; *2436 Wagner Street, S.E., Washington, D. C. 20020.*

Bowen, Jacob Van, Jr., B.S., (University of Richmond); Graduate Student, Department of Statistics, Virginia Polytechnic Institute; *405 S. Main Street, #4, Blacksburg, Virginia.*

Broemeling, Lyle D., M.S., (Texas A&M University); Graduate Student/Assistant, Institute of Statistics, Texas A&M University.

Brown, Daniel J., B.A., (Ohio State University); Graduate Student, Ohio State University; *Route 2 Box 80 C, Stryker, Ohio.*

Brown, Thurman J., M.A., (Purdue University); Graduate Student/Assistant, Department of Statistics, Michigan State University.

Bruno, Carlo V., B.S., (University of Portland); Systems Equipment Engineer, Western Electric Company, Sunnyvale, California; *107 S. Mary, Apt. 108, Sunnyvale, California.*

Bryson, Maurice C., B.A., (Harvard University); Graduate Student/Teaching Assistant, Department of Mathematics and Statistics, Colorado State University.

Carroll, Margaret D., A.B., (The Catholic University of America); Graduate Student, The Catholic University of America; *3915 Northampton Street, N.W., Washington, D. C.*

Casady, Robert Jackson, B.Sc., (Kansas State University); Graduate Student, Department of Statistics, Kansas State University.

Chiao, John C., B.A., (La Salle College); Graduate Student, Statistics Center, Rutgers, The State University; *299 Clinton Avenue, Apt. 62A, Newark 8, New Jersey.*

Conroy, John E., M.S., (University of Colorado); Graduate Student/Teaching Assistant, University of Colorado; *610 Arapahoe Avenue, Boulder, Colorado.*

Cotterill, Charles H. E., M.A., (Columbia University); Computer Programmer-Analyst, Socony Mobil Oil Co., 150 E. 42 Street, New York; *Roger Williams Hotel, Madison Avenue and 31st Street, New York, New York 10016.*

Das, Shri Bhagwan, M.Sc., (Lucknow University); Graduate Student/Junior Research Fellow, Centre for Advanced Training and Research in Mathematics, University of Bombay.

Davis, Herbert T., III, B.S., (University of Florida); Graduate Student/Assistant, Department of Statistics, University of Florida.

Deely, John Joseph, Ph.D., (Purdue University); At Sandia Corporation, Alburquerque, New Mexico.

Dilts, Charles R., A.B., (Duke University); Graduate Student, Georgia State College; *P.O. Box 61, 505 W. Chapel Hill Street, Durham, North Carolina, 27701.*

Dunn, Rosalie A., M.A., (The Catholic University of America); Graduate Student, Department of Biology, The Catholic University of America.

Duran, Benjamin S., M.S., (Colorado State University); Graduate Student/NIH Fellow, Statistical Laboratory, Colorado State University.

Engelhardt, Maxwell Eugene, B.S., (University of Missouri); Graduate Student/Teaching Assistant, Department of Statistics, University of Missouri; *5836 Wabash, Kansas City, Missouri.*

Fairweather, William R., A.B., (University of California); Graduate Student, Cornell, University; *107 Cascadilla Hall, Cornell University.*

Fratis, Anthony M., III, B.A. (Sacramento State College): Graduate Student, Department of Mathematics, University of California, Davis.

Frommer, Sidney; Operations Assistant, Courant Institute of Mathematical Sciences, New York University; *213-06 75 Avenue, Bayside 64, New York.*

Ghosh, Pankaj Kumar, M.Sc., (University of Calcutta); Graduate Student, Department of Mathematics, University of Nebraska.

Gillespie, Frank A., B.A., (University of Wyoming); Graduate Student, Department of Statistics, University of Wyoming; *807 Steele, Laramie, Wyoming.*

Godambe, V. P., Ph.D., (London University); Visiting Professor/Professor, Department of Statistics, The Johns Hopkins University/Institute of Science, Bombay.

Gosstyla, Ted, Student, Georgia State College.

Grammas, Gus W., B.A., (Columbia University); Graduate Student/Teaching Assistant, Department of Mathematical Statistics, Columbia University; *326 Audubon Avenue, New York, New York 10033.*

Harper, Ronald G., B.S.E.E., (University of Kansas); Graduate Student, University of Kansas; *2028 Rhode Island, Lawrence, Kansas.*

Hartmann, Norbert A., Jr., B.A., (Texas A&M University); Graduate Student, Institute of Statistics, Texas A&M University.

Hearne, Francis Terry, M.S., (University of Wyoming); Analyst-Applied Mathematics, Eastman Kodak Company, Rochester, New York; *2729 Culver Road, Rochester, New York 14622.*

Henschke, Claudia I., B.A., (Southern Methodist University); Graduate Student/Research Assistant, Southern Methodist University/Graduate Research Center of the Southwest; *3312 Amherst, Dallas, Texas.*

Hering, Franz E., Dipl.Math., (University of Tübingen); Assistent, Institut für Wahrscheinlichkeitstheorie und mathematische Statistik, Universität of Bonn; *Burgweg 50, 5300 Bonn, Germany.*

Hertz, Ellen Shapiro, A.M., (Columbia University); Graduate Student, Columbia University.

Hettmansperger, Thomas Philip, M.S., (State University of Iowa); Graduate Student, State University of Iowa; *235 Stadium Park, Iowa City, Iowa.*

Hoke, Albert T., M.A., (Columbia University); Graduate Student, Department of Mathematical Statistics, Columbia University; *1836 Temple Avenue, Lancaster, Pennsylvania.*

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Hubert, John Joseph, B.Sc., (University of Windsor); Graduate Student, Department of Mathematics, University of Alberta.

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Margolin, Barry Herbert, M.A., (Harvard University); Graduate Student, Harvard, University.

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Robertson, Hew, B.A., (Queens' University, Kingston); Graduate Student, Florida State University.

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Rohatgi, Mandakini Sané, Ph.D., (University of California, Berkeley); Assistant Professor, Department of Mathematics, Boston University; *270 Bay State Road, Boston, Massachusetts.*

Roka, William B., (University of Budapest); Salesman, Abraham and Straus, Walt Whitman Shopping Center, Huntington, New York.

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Srivastava, Siyaram, Ph.D., (Purdue University); Reader, Vikram University, Ujjain, India; Department of Mathematics, Université Laval, Quebec.

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Takeuchi, Kiyoshi, M.A., (Tokyo University of Commerce); Assistant Professor/Visiting Professor, Otaru University/Texas A&M University.

Tranquilli, Giovanni B., Doctorate in Statistics, (University of Rome); Assistant Professor, Department of Statistics, University of Rome.

Tucker, Eugene, M.A., (University of Louisville); Mathematical Statistician, Internal Revenue Service, 4th and G Street, Washington D. C.; *724 3rd Street NW, #304, Washington, D. C. 20001.*

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Wehmanen, Oscar Anton, M.S., (Purdue University); Graduate Student/Assistant, Department of Mathematics, Purdue University.

White, Leon, S., Ph.D., (Columbia University); Assistant Professor, Alfred P. Sloan School of Management, Massachusetts Institute of Technology.

White, Walter Joel; Student, University of Alabama; *720 80th Place South, Birmingham, Alabama 35206.*

Wichura, Michael J., M.A., (Columbia University); Graduate Student, Columbia University; *Apt 1R, Butler Hall, 400 West 119th Street, New York, New York 10027.*

Williford, William Olin, M.S., (Florida State University); Graduate Student, Department of Statistics, Virginia Polytechnic Institute; *701 Progress Street, Blacksburg, Virginia.*

Wilson, Earl L., A.B., (Tarkio College); Graduate Student, Florida State University.

Woods, W. John, B.A., (University of British Columbia); Teacher, New Westminister Board of School Trustees; *4049 West 13th Avenue, Vancouver 8, British Columbia.*

Yasaimaibodi, Hedayat, B.S., (Teheran University); Graduate Student, Department of Statistics, The George Washington University; *927 New Hampshire Avenue, NW, Washington, D. C. 20037.*

Yen, Shih-pau, B.A., (Chung Hsing University); Graduate Student/Research Assistant, Department of Statistics, University of Minnesota.

Yu, Benito O., M.S., (McGill University); Graduate Student/Assistant, Department of Statistics, Michigan State University.

GRANTS FOR TRAVEL TO THE INTERNATIONAL CONGRESS

Travel grants will be made to a number of qualified mathematicians for attendance at the International Congress of Mathematicians, to be held in Moscow on August 14–24, 1966. Selection of the grantees will be made by the Committee on Travel Grants of the Division of Mathematics of the National Academy of Sciences—National Research Council enlarged to include representatives of all mathematical societies affiliated with the Division and representatives of the various governmental agencies concerned. Younger mathematicians are encouraged to apply. Special efforts will be made to support their attendance, and they will have the opportunity to supplement their applications by submitting additional information. Applications can be obtained from the Division of Mathematics, National Academy of Sciences, National Research Council, 2101 Constitution Avenue, N.W., Washington, D. C. 20418. Applications must be received on or before November 1, 1965.

REPORT OF THE BERKELEY, CALIFORNIA MEETING OF THE INSTITUTE OF MATHEMATICAL STATISTICS

The one hundred sixth meeting of the Institute of Mathematical Statistics, the Western Regional meeting, co-sponsored by the Fifth Berkeley Symposium was held at the University of California, Berkeley, on July 19–21, 1965.

A total of 93 persons registered for the meetings.

Program

Monday, July 19, 1965

10:10 a.m.–11:30 a.m.—Invited Papers I

Chairman: J. NEYMAN, University of California, Berkeley

1. *Augmenting 2^{n-1} Designs*, P. W. M. JOHN, University of California, Davis.
2. *Designs for Studying One Factor at a Time*, STEVE WEBB, Rocketdyne.

1:10 p.m.–2:30 p.m.—Invited Papers II

Chairman: ERICH LEHMANN, University of California, Berkeley

1. *The Stochastic Characterization of Wear-out for Components and Systems*, Z. W. BIRNBAUM, Boeing Scientific Research Laboratories and the University of Washington, J. D. ESARY and A. W. MARSHALL, Boeing Scientific Research Laboratories.
2. *Optimal Invariant Rank Tests for the k-sample Problem*, T. K. MATTHES and D. R. TRUAX, University of Oregon.

3:10 p.m.–4:40 p.m.—Contributed Papers I

Chairman: R. F. TATE, University of Washington

1. *The Limit of the nth Power of a Density*, Robert J. BUEHLER, University of Minnesota.
2. *The Estimation of the Parameters of a Mixture of Distributions*, MIR M. ALI and A. B. M. LUTFUL KABIR, University of Western Ontario.
3. *A New Proof of Some Results of Rényi*, MIKLÓS CSÖRGO, Princeton University.
4. *Minimax Prediction of Random Probabilities*, MORRIS SKIBINSKY, Brookhaven National Laboratory.
5. *Confidence Limits for the Product of N Binomial Parameters*, Melvin D. SPRINGER and WILLIAM E. THOMPSON, General Motors Corporation.
6. *Probabilities of Moderate Deviations*, HERMAN RUBIN, Michigan State and Stanford Universities, and J. SETHURAMAN, Indian Statistical Institute and Stanford University.
7. *A Characterization of the Multivariate Normal Distribution*, V. SESHADRI, McGill University.

Tuesday, July 20, 1965

8:30 a.m.–10:00 a.m.—Contributed Papers II

Chairman: E. L. SCOTT, University of California, Berkeley

1. *Analysis of the N-Way Classification Design Model: Non-Orthogonal Layout With One or More Concomitant Variables* (Preliminary Report), BONITA J. PEURA, U.S. Navy Electronics Laboratory.
2. *An Optimization Problem in Quality Control*, EBERHARD BAUER, Aerojet-General Corporation.

3. *On an Asymptotic Approximation to the Non-Central t Distribution*, WILLIAM M. STONE, Oregon State University, and BONITA PEURA, University of California, San Diego.
4. *On the Property (W) of the Class of Statistical Decision Functions*, Hirokichi Kudō, Osaka City University and the University of California, Berkeley.
5. *The Sequential Compound Decision Problem with m × n Loss Matrix*, J. VAN RYZIN, Argonne National Laboratory.

10:30 a.m.–12:15 p.m.—Invited Papers III

Chairman: B. EPSTEIN, Consultant, Palo Alto

1. *Mathematical Programming and Control Theory*, GEORGE B. DANTZIG, University of California, Berkeley.
2. *Statistical Control of a Normal Process*, HOWARD TAYLOR, Stanford University.
3. *Some Fundamental Considerations in Stochastic Optimization*, D. W. WALKUP and R. J. B. WETS, Boeing Scientific Research Laboratories.

1:30 p.m.–3:15 p.m.—Invited Papers IV

Chairman: M. VERNON JOHNS, JR., Stanford University

1. *Limit Theorems Involving Capacities*, SIDNEY PORT, RAND Corporation.
2. *A Convergence Theorem for Products of Random Matrices*, R. A. GANGOLLI, University of Washington.
3. *Probability Distributions for Linear Varieties*, BRADLEY EFRON, Stanford University.

3:45 p.m.–5:15 p.m.—Contributed Papers III

Chairman: J. YAHAV, University of California, Berkeley

1. *Identification of State-Calculable Functions of Finite Markov Chains* (Preliminary Report). J. W. CARLYLE, University of California, Los Angeles.
2. *On Convergence of k-Means and Partitions with Minimum Average Variance*, J. MAC-QUEEN, University of California, Los Angeles.
3. *Bayes Risk Efficiency*, HERMAN RUBIN, Michigan State and Stanford Universities, and J. SETHURAMAN, Indian Statistical Institute and Stanford University.
4. *U-Statistics and Combination of Independent Estimators of Regular Functionals*, PRANAB KUMAR SEN, University of California, Berkeley.
5. *Sequential Procedures for Selecting the Best One of Several Binomial Populations*, EDWARD PAULSON, Queens College and New York University.

Wednesday, July 21, 1965

8:30 a.m.–10:15 a.m.—Invited Papers V

Chairman: F. C. ANDREWS, University of Oregon

1. *Confidence Intervals for Probabilities of Correct Classification*, OLIVE JEAN DUNN, University of California, Los Angeles.
2. *A Contribution to the Theory of Robust Methods of Inference*, J. L. GASTWIRTH, Johns Hopkins University.
3. *Some Optimum Designs for Regression*, PAUL G. HOEL, University of California, Los Angeles.

10:45 a.m.–12:00 noon—Invited Papers VI

Chairman: F. N. DAVID, University College London and the University of California, Berkeley

1. *Nonparametric Covariance Analysis I: Testing Methods*, ROBERT ELASHOFF, University of California, Berkeley, and Z. GOVINDARAJULU, University of California, Berkeley and Case Institute of Technology.
2. *The Statistical Properties of Ocean Wave Forces*, LEON BORGMAN, University of California, Davis.

Contributed Papers by Title

1. *Selection from Multivariate Normal Populations*, KHURSHEED ALAM and M. HASAEEB RIZVI, Indiana and Ohio State Universities.
2. *Inadmissibility of the Classical Estimator of the Multiple Regression Function*, A. J. BARANCHIK, Columbia University.
3. *Characterization Theorems for the Weibull and the Weibull-Gamma Distributions*, SATYA D. DUBEY, Procter and Gamble Company.
4. *Regenerative Methods in Systems Reliability*, BENJAMIN EPSTEIN, Consultant, Palo Alto, California.
5. *Uniform Convergence of Losses in the Fixed and Sequential $m \times n$ Compound Decision Problem*, J. VAN RYZIN, Argonne National Laboratory.
6. *An Admissible Test with Monotone Power Function for the Equality of Two Covariance Matrices*, M. S. SRIVASTAVA, University of Toronto.
7. *On a Test of the Homogeneity of Correlation Coefficients*, M. S. SRIVASTAVA, University of Toronto.
8. *Theory of Modal Unbiased Estimation*, M. T. WASAN, Queen's University.
9. *On Certain Properties of the Exponential-Type Families*, G. P. PATIL, McGill and Pennsylvania State Universities, and RICHARD SHORROCK, McGill University.
10. *An Analysis for Shift in Mean of a Nonstationary Time Series*, M. J. HINICH and J. U. FARLEY, Carnegie Institute of Technology.
11. *Application of the Statistical Decision Theory to Signal Waveform Extraction*, M. BEHARA and N. K. LOH, University of Waterloo.

R. F. TATE
Associate Secretary

PUBLICATIONS RECEIVED

BAKST, AARON (1965). *Mathematical Puzzles and Pastimes*, Second Edition. D. Van Nostrand Co., Princeton, New Jersey. vii + 242 pp. $5.50.

BLOEMENA, A. R. (1964). *Sampling from a Graph*. Mathematical Centre Amsterdam, Netherlands, 96 pp. $3.00.

COHN, RICHARD M. (1965). *Difference Algebra*. John Wiley and Sons, New York. xiv + 355 pp. $12.95.

DAVIS, JAMES A., GILMAN, RICHARD, and SCHICK, JUDITH (1965). *Tables for Yule's Q Association Coefficient for Pairs of Percentages*. The National Opinion Research Center, Chicago, Illinois. 21 pp. $2.00.

FRY, THORNTON C. (1965). *Probability and Its Engineering Uses*, Second Edition. D. Van Nostrand Co., Princeton, New Jersey. xv + 462 pp. $15 (Reference), $12 (College Text Edition).