

NEWS AND NOTICES

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

Personal Items

Mr. Kenneth J. Arrow has been appointed Research Associate of the Cowles Commission.

Dr. W. D. Baten, formerly of Michigan State College, is now Chief, Operations Branch, Planning Section, Air Defense Command, Mitchel Field, New York.

Dr. Paul T. Bruyere is now Chief of the Medical Records and Statistics Branch, Army Institute of Pathology, Office of the Surgeon General, War Department.

Dr. A. C. Cohen received his discharge from the Army, with the rank of Lieutenant Colonel, at the beginning of the spring quarter, and returned to his former position at Michigan State College. He has accepted a position at the University of Georgia beginning with the 1947 summer session there.

Dr. Hallett H. Germond has resigned from his position as professor of mathematics at the University of Florida. He is now Director of Research for the S. W. Marshall firm of Consulting Engineers, in New York City.

Dr. Meyer A. Girshick, formerly with the Department of Agriculture, is now with the Douglas Aircraft Company in Santa Monica, California.

Dr. Clyde H. Graves has accepted a position as Operations Analyst, Operations Analysis, Air Defense Command, Mitchell Field, New York.

Dr. E. J. Gumbel has been appointed to an Associate Professorship at Brooklyn College.

Dr. Trygve Haavelmo has returned to Norway, and is at the University Institute of Economics, Oslo.

Mr. Joseph O. Harrison, Jr., is now employed as a Mathematician in the Computing Branch of the Ballistic Research Laboratories, Aberdeen Proving Ground.

Dr. Wassily Hoeffding has accepted a position as Research Associate, The Institute of Statistics, University of North Carolina, Chapel Hill.

Mr. Cyrus A. Martin is now an administrative analyst and statistician, assisting Chief of Personnel Control of Signal Corps, in Washington, D. C.

Mr. Jack I. Northam has accepted an Assistant Professorship in the Department of Mathematics, Kansas State College, Manhattan, beginning with the 1947 summer session.

Professor Henry Scheffé, who has been on leave for the past year, returned to his position in the Engineering Department, University of California at Los Angeles, in June.

Mr. Edward M. Schrock has accepted a position as Quality Control Engineer with the General Electric Company at their Erie Works, Erie, Pa.

Mr. Jerome R. Steen, who has been manager of Quality Control Engineering

with the Sylvania Electric Products in Emporium, Pa., has now transferred with the same company to Flushing, New York.

Professor Emeritus Irving Fisher, of Yale University, died April 29, 1947, at the age of eighty.

In connection with the Atlantic City meeting of the American Chemical Society, April 14–18, 1947, a symposium on *Statistical Methods in Experimental and Industrial Chemistry* was held, in which several members of the Institute of Mathematical Statistics took part. The following program was presented Tuesday morning and afternoon, April 15:

- (1) *Introductory Remarks.* B. L. Clarke.
- (2) *The Management Viewpoint.* George Smith.
- (3) *A New Technique for Testing the Accuracy of Analytical Data.* W. J. Youden.

Discussion: Grant Wernimont, R. F. Moran, John Mandel, and Roland H. Noel.

- (4) *Design of Experiments in Industrial Research.* Hugh M. Smallwood.
- (5) *Statistical Training for Industry.* Samuel S. Wilks.

Discussion: John Tukey, E. V. Lewis, Churchill Eisenhart, and C. West Churchman.

Preliminary Actuarial Examinations

Prize Awards

The winners of the prize awards offered by the Actuarial Society of America and the American Institute of Actuaries to the nine undergraduates ranking highest in the combined score on Part 1 and Part 2 of the 1947 Preliminary Actuarial Examinations are as follows:

First Prize of \$200

James H. Chung *University of Toronto*

Additional Prizes of \$100

James F. A. Biggs	<i>Yale University</i>
George Y. Cherlin	<i>Rutgers University</i>
Frank H. David	<i>Harvard University</i>
Thomas M. Galt	<i>University of Manitoba</i>
Charles F. Pinzka	<i>Rutgers University</i>
Philip C. Rapp	<i>University of Buffalo</i>
Morton K. Schwartz	<i>Brown University</i>
James G. C. Templeton	<i>University of Toronto</i>

The two actuarial organizations have authorized a similar set of nine prize awards for the 1948 Examinations.

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 1948 Examinations will be administered by the College Entrance Examination Board at centers throughout the United States and Canada on May 14-15, 1948.

Correction

In the Directory of Members published in Vol. XVII, No. 4 (December 1946) Professor Joseph Kampé de Fériet's name is listed in the F's under Fériet. It should have appeared in the K's, under Kampé de Fériet.

New Members

The following persons have been elected to membership in the Institute (March 1 to May 30, 1947):

- Adams, Joe K.** Ph. M. (Wisconsin) Graduate student and half-time instructor in Psychology, Graduate College, Princeton University, Princeton, N. J.
- Adams, Walter B.** Communications Analyst, Civil Aeronautics Admin., Dept. of Commerce, 8253 S. Ingleside Ave., Chicago 19, Ill.
- Aitken, Alexander C.** D.Sc. (Edinburgh) Professor of Mathematics, University of Edinburgh, 23 Stirling Road, Edinburgh 5, Scotland
- Brambilla, Francesco** Ph.D. (Univ. L. Bocconi) Lecturer in Math. Statistics, Institute of Statistics, Università L. Bocconi, 6 via Panzacchi, Milano, Italy
- Brown, George Middleton,** D.Sc. (Michigan) Asst. Prof. of Math., Mich. State College, East Lansing, Mich., 633 Cherry Lane
- Bueno, Luiz de Freitas,** E.E. (Mackenzie Coll.) Professor da Universidade de São Paulo, Brazil, Rua Itambê 341, Casa 13
- Burke, Cletus J.,** M.A. (U.C.L.A.) Res. Ass't, Univ. of Iowa, Iowa City, Iowa, 118 Riverside Park
- Cameron, Joseph M.,** M.S. (N. Car. State) Room 302 South Building, National Bureau of Standards, Washington, D. C.
- Carpenter, Osmer** M.S. (Iowa State) Instructor, Mathematics Department, Iowa State College, Ames, Iowa
- Castellani, Maria** D.Sc. (Rome) Visiting Professor, Department of Mathematics, University of Kansas City, Kansas City 4, Mo
- Chernoff, Herman** Sc.M. (Brown) National Research Council Pre-Doctoral Fellow, 3003 Wallace Ave., Bronx 67, N. Y.
- Clark, Stanley** M.Ed. (Saskatchewan) Student and teaching assistant, 1301-7th St., S.E., Minneapolis 14, Minn.

- Cover, John H.** Ph.D. (Columbia) Director, Bureau of Business and Economic Res., Univ. of Maryland, College Park, Md.
- Dailey, John T.** M.S. (N. Texas Teachers Coll.) Res. Psychologist (Aviation), Psychological Res. and Examining Unit, Sqn. E, Indoctrination Div., Air Training Command, San Antonio, Texas
- Darling, Donald A.** Ph.D. (Calif. Inst. Tech.) Teaching Ass't, Calif. Inst. of Technology, Pasadena 4, Calif. (As of July 1947, Dept. of Math., Cornell Univ., Ithaca, N. Y.)
- Darmois, Georges** D.Sc. (Paris) Prof. à la Faculté des Sciences de Paris, 7 Rue de l'Odéon, Paris 6, France
- Davies, J. Alfred** M.A. (Alabama) Statistician, Design Eng. Section, General Electric Co., 708 Hill Avenue, Owensboro, Kentucky
- Dunnett, Charles W.** M.A. (Toronto) Student, 1044 John Jay Hall, Columbia Univ., New York 27, N. Y.
- Egermayer, Frantisek** Sc.D. (Charles Univ., Prague) Chief of Section, State Statistical Office, 2 Bělského, Prague VII, Czechoslovakia.
- Fickenscher, Edgar H.** A.B. (Calif.) Graduate student and teaching ass't, Univ. of Calif., 1490 Acton St., Berkeley 2, Calif.
- Fraga, Constantino G. Jr.** (Sao Paulo) Head, Dept. of Statistics, Instituto Agronomico, Campinas (S.P.), Brazil.
- Frank, Elmore J.** B.A. (Chicago) Instr. in Statistics, Ill. Institute of Tech., and Statistician, Commercial Res. Dept., Armour and Co., 5423 Maryland Ave., Chicago 15, Ill.
- Frisch, Ragnar** Ph.D. (Oslo) Professor, University Institute of Economics, Oslo, Norway.
- Geary, Robert C.** D.Sc. Superintending Officer, Statistics Branch, Dept. of Industry and Commerce, 27 Leeson Park, Dublin, Ireland.
- Goodman, John R.** M.S. (Iowa State) Head, Sampling Section, Survey Res. Center, Univ. of Mich., Ann Arbor, Mich.
- Gutman, Pierre** M.A. (Columbia) Student, 7 Mountain Ave., Maplewood, N. J.
- Hartline, H. K.** M.D. (Johns Hopkins) Assoc. Prof. of Biophysics, Johnson Res. Foundation, Univ. of Pennsylvania, 36th and Spruce Sts., Philadelphia, Pa.
- Hartog, Jacob A.** (Rotterdam) Rockefeller Fellow, 25 Follen St., Cambridge, Mass.
- Jacobs, Marcus** A.B. (Penn.) Health Statistician, 4439 S. 36th St., Arlington, Va.
- Jeeves, Terry A.** A.B. (Calif.) Teaching ass't in math., Univ. of Calif., 2511 Hearst Ave., Berkeley 9, Calif.
- Kempthorne, Oscar** M.A. (Cambridge, England) Res. Assoc. Prof., Statistical Lab., Iowa State College, Ames, Iowa
- Kendall, David G.** M.A. (Oxford) Fellow, Magdalen Coll., Oxford, England
- Kent, Leonard** M.B.A. (Chicago) Instr. in Statistics, School of Business, Univ. of Chicago, Chicago 37, Ill.
- Kupperman, Morton** B.S. (C.C.N.Y.) Statistician, Office of the Surgeon General, War Dept., 2829-27th St., N.W., Washington 8, D. C.
- Lhati, Elizabeth L.** M.A. (Michigan) Statistician, Bur. of Measurement and Guidance, Carnegie Institute of Technology, Pittsburgh 13, Pa.
- Levine, Harry D.** B.S. (Chicago) Instr., Long Island Univ., 164 W. 96 St., New York 25, N. Y.
- Lichtenstein, Morris** B.A. (Michigan) Statistician, 4811 N. Capitol St., N.E., Washington 11, D. C.
- McMillan, Brockway** Ph.D. (Mass. Inst. Tech.) Member, Technical Staff, Bell Telephone Labs., Murray Hill, N. J.
- Marshall, Andrew W.** Student, 5757 University Ave., Chicago 37, Ill.
- Metzner, Charles A.** Ph.D. (Wisconsin) Study Director, Survey Research Center, Univ. of Michigan, Ann Arbor, Mich.
- Norton, John W.** B.S. (California) Lab. Supervisor, Union Oil Co. of Calif., 5529 Macdonald Ave., Richmond, Calif.

- Otter, Richard** Ph.D. (Indiana) Instructor, Fine Hall, Princeton Univ., Princeton, N. J.
- Passos, Helena Rocha Penteado** Diretor de Divisão do Depto. Estadual de Estatística de São Paulo, *Avenida Angélica, 160, Apto. 6, São Paulo, Brazil*
- Priest, Edward I.** B.S. (Columbia) Student in mathematics, *1204 E. 55th St., Chicago, Ill.*
- Quensel, Carl-Erik** Fil.Dr. (Lund) Prof. at the University, Lund, Sweden, *Linnegatan 14*
- Rankin, Mozelle** M.A. (Ohio State) Ass't Instructor, Ohio State Univ., *107-14th Ave., Columbus 1, Ohio*
- Robb, Richard A.** D.Sc. (Glasgow) Mathematics Lecturer and Mitchell Lecturer in Statistics, Univ. of Glasglow, Glasgow, W. 2, Scotland.
- Ruist, Erik** Fil.kand. (Stockholm) Amanuens, Industriens utredningsinstitut, Stockholm 16, Sweden
- Shani, Inder M.** M.A. (Punjab) Rothamsted Experimental Station, Harpenden, Herts, England.
- Schneider, B. Aubrey** Sc.D. (Johns Hopkins) Ass't Director, Dept. of Statistics and Special Services, American Cancer Society, 47 Beaver St., New York 4, N. Y.
- Seitz, Jiri** Ph.D. (Prague) Kourimská 8, ČSR, Praha XII, Czechoslovakia.
- Simaika, Jacques B.** Ph.D. (London) Lecturer, Faculty of Science, Fuad I University, Abbassia, Cairo, Egypt.
- Slatin, Benjamin** M.A. (Columbia) Jr. Analyst, Econometric Institute, *179 Peshine Ave., Newark 8, N. J.*
- Suydam, Bergen R.** A.B. (N.Y. State Coll. for Teachers) Graduate student, Columbia University, *1 W. 706 St., Shanks Village, Orangeburg, N. Y.*
- Tashmuhamed, Sarymsakov** Ph.D. (Moscow) President of the Academy of Sciences of Uzb.SSR, Professor of the University, Tashkend, *ul. Abdulli Tukaeva 1, Tashkent, USSR*
- Travers, Robert M. W.** Ph.D. (Columbia) Examiner, and Assoc. Prof. of Education, Bureau of Psychological Services, Univ. of Mich., Ann Arbor, Mich.
- Weiner, Sidney** B.S. (C.C.N.Y.) Student, New York University Graduate School, *1639 East 17th St., Brooklyn 30, N. Y.*
- Wezelman, Sol M.** A.B. (Michigan) Graduate student, University of Michigan, Ann Arbor, Mich., *2432 Burt St., Omaha, Nebr.*
- Wishart, John** D.Sc. (London) Reader in Statistics, School of Agriculture, Cambridge, England

REPORT ON THE NEW YORK MEETING OF THE INSTITUTE

The Twenty-Sixth Meeting of the Institute of Mathematical Statistics was held in New York City on Thursday, April 24, and Friday, April 25, 1947, and was co-sponsored by the American Mathematical Society. This meeting was devoted to a program on *Stochastic Processes and Noise*. The attendance of 190 persons included the following 75 members of the Institute:

F. A. Acton, C. B. Allendoerfer, F. L. Alt, T. W. Anderson, Jr., L. A. Aroian, W. D. Baten, Robert Bechhofer, J. H. Bigelow, D. H. Blackwell, Paul Boschan, G. W. Brown, R. S. Burington, B. H. Camp, E. W. Cannon, A. G. Carlton, K. L. Chung, P. C. Clifford, D. D. Cody, Harald Cramér, H. B. Curry, J. H. Curtiss, R. L. Dietzold, J. L. Doob, Jacques Dutka, Churchill Eisenhart, Benjamin Epstein, Will Feller, M. M. Flood, Bernard Friedman, C. P. Gerschenson, H. H. Goode, C. H. Graves, E. J. Gumbel, T. E. Harris, Millard Hastay, L. H. Herbach, P. G. Hoel, Mark Kac, R. D. Keeney, T. C. Koopmans, William Kruskal, Jack Laderman, J. E. Lieberman, S. B. Littauer, Melitta Lowy, P. J. McCarthy, Brockway McMillan, Frederick Mosteller, L. F. Nanni, P. M. Neurath, G. E. Noether, M. L. Norden, C. O. Oakley, P. S. Olmstead, G. B. Price, J. S. Rhodes, John Riordan, Selby Robinson, Frank Saidel, Arthur Sard, F. E. Satterthwaite, G. R. Seth, C. E. Shannon, Jack Sherman, W. A. Shewhart, Rosedith Sitgreaves, Andrew Sobczyk, Milton Sobel, Emma Spaney, C. M. Stein, J. W. Tukey, D. F. Votaw, Jr., B. T. Weber, S. S. Wilks, Jacob Wolfowitz.

The first session, was held on Thursday morning, with Professor Carl Allendoerfer of Haverford College serving as chairman. The following program was presented:

Stochastic Processes—

Description, Professor J. L. Doob, Columbia University

Estimation, Professor Will Feller, Cornell University

Prediction, Professor N. Wiener, Massachusetts Institute of Technology

This meeting was concluded with a discussion by Dr. H. W. Bode, Bell Telephone Laboratories, Professor Mark Kac, Cornell University, and Professor A. Wald, Columbia University.

Dr. S. O. Rice, Bell Telephone Laboratories, was chairman of the Thursday afternoon session. The following program was presented:

Stochastic Processes in Some Applications—

In Economics, Dr. T. Koopmans, Cowles Commission

In Insurance, Professor H. Cramér, Yale University

In Cosmic Radiation, Professor N. Arley, Princeton University

In Nuclear Physics, Dr. S. M. Ulam, Los Alamos Laboratory

The final session was held on Friday morning with Professor J. W. Tukey of Princeton University as chairman. The program was as follows:

Different Ways of Describing Noise—

By a Noise Spectrum, Dr. C. E. Shannon, Bell Telephone Laboratories

By a Single Function, Mr. J. E. Bigelow, Institute for Advanced Study

By Many Functions, Professor Mark Kac, Cornell University

Round Table on Interrelations, Messrs. Shannon, Bieglow, Kac, and Rice

P. S. DWYER,
Secretary.

REPORT ON THE APRIL MEETING OF THE INSTITUTE IN ATLANTIC CITY

The Twenty-Seventh Meeting of the Institute of Mathematical Statistics was held in cooperation with the Eastern Psychological Association, on Saturday morning, April 26, 1947, in Atlantic City. This meeting was a *Round Table on Certain Recent Statistical Developments*, and its attendance of approximately 100 persons included the following 9 members of the Institute:

F. S. Acton, J. W. Dunlap, Benjamin Epstein, Irving Lorge, P. J. McCarthy, Frederick Mosteller, P. J. Rulon, F. E. Satterthwaite, and Emma Spaney.

Professor Bernard Riess of Hunter College was chairman of the meeting. The following program was presented:

Papers: *Sequential Analysis.*
 Dr. Irving Lorge, Teachers College, Columbia University
 Staircase Methods.
 Dr. Philip J. McCarthy, Cornell University
 Inefficient Statistics.
 Dr. Frederick Mosteller, Harvard University

Discussion: Dr. Jack W. Dunlap, Psychological Corporation
 Dr. Leon Festinger, Massachusetts Institute of Technology
 Dr. William E. Kappauf, Princeton University
 Dr. Joseph Zubin, New York Psychiatric Institute Hospital

P. S. DWYER,
Secretary.

REPORT ON THE SAN DIEGO MEETING OF THE INSTITUTE

The first Western Regional meeting of the Institute of Mathematical Statistics was held in San Diego, California, June 17-19, 1947, jointly with the American Association for the Advancement of Science. The meeting was attended by 53 persons, including the following 31 members of the Institute:

G. A. Baker, Joseph Berkson, Z. W. Birnbaum, H. C. Carver, Harald Cramér, J. R. Crawford, Dorothy Cruden, W. J. Dixon, Robert Dorfman, M. W. Eudey, Evelyn Fix, John Gurland, J. L. Hodges, Jr., J. M. Howell, H. M. Hughes, E. S. Keeping, E. L. Lehmann, R. H. Lien, F. J. Massey, G. F. McEwen, Frederick Mosteller, S. W. Nash, Jerzy Neyman, Kathryn B. Rolfe, Henry Scheffé, Herbert Solomon, C. M. Stein, Zenon Szatrowski, H. M. Walker, J. D. Williams, Zivia S. Wurtele.

The afternoon session on June 17 was a joint meeting with the Group of Former Operations Analysts. The following program was presented under the chairmanship of Col. Roscoe C. Wilson:

Topic: *Statistical Problems in Operations Analysis.*

Papers: *Engineering and Statistics at the Pacific Front in World War II.*

Roger Wilkinson, Bell Telephone Laboratories, New York City.

Present Organization and Activities of Operations Analysis.

Leroy A. Brothers, Operations Analysis, Asst. Chief of Air Staff-3, Washington, D. C.

Statistical Evidence of Bomb Release Malfunctions.

Mark W. Eudey, University of California, Berkeley.

Study of Effectiveness of Certain Bombs Used Against German Industrial Targets.

J. Neyman, University of California, Berkeley.

The morning session on June 18 was presented with Professor Alva R. Davis as chairman, and the program was as follows:

Topic: *Statistical Problems in Biology.*

Papers: *A Mathematical Model of the Relation between White and Yolk Weights of Birds' Eggs.*

G. A. Baker, University of California, Davis.

Statistical Analysis for a New Procedure in Sensitivity Experiments.

W. J. Dixon, University of Oregon, and A. M. Mood, Iowa State College.

The Relation of Inbreeding to Calf Mortality.

P. W. Gregory, University of California, Davis.

Cooperative Field Trials.

P. A. Minges, University of California, Davis.

Population Genetics.

N. H. Horowitz, California Institute of Technology.

Statistical Problems in Assessing Methods of Medical Diagnosis, with Particular Reference to X-Ray Technique.

J. Yerushalmy, United States Public Health Service, Washington, D. C.

Discussion: J. Neyman, University of California, Berkeley.

Professor John W. Miles was chairman of the afternoon session on June 18, which was a joint session with the California Section of the American Society for Quality Control. The following papers were presented:

- Topic: *Industrial Applications of Statistics.*
 Papers: *Operating Characteristics of Average and Range Charts.*
 Henry Scheffé, University of California, Los Angeles.
Sampling Inspection by Variables.
 Herbert Solomon, Stanford University.
Some Exact Numerical Results for Sequential Acceptance Sampling by Attributes.
 Mark W. Eudey, University of California, Berkeley.
Choice of Inspection Stringence in Acceptance Sampling by Attributes.
 Joseph L. Hodges, University of California, Berkeley.
Widening Tolerances for Closer Fitting Parts.
 Edmond E. Bates, Quality Engineering Consultants, Los Angeles.
 Discussion: Russell O'Neill, University of California, Los Angeles.
Re-establishing Operator Responsibility for Quality Control.
 Wyatt H. Lewis, General Electric Company, Ontario, California.
 Discussion: William B. Rice, Plomb Tool Company, Los Angeles.
The Application of Learning Curves to Industrial Planning.
 James R. Crawford, Wright Field, Dayton, Ohio.

The Wednesday evening session was under the chairmanship of Professor George Beadle, California Institute of Technology, with the following program:

- Topic: *Statistical Problems in Genetical Studies in Chickens.*
 Paper: *Rate of Genetic Gain in Egg Production in Progeny-tested Flocks as a Function of the Interval between Generations.*
 Everett R. Dempster and I. Michael Lerner, University of California, Berkeley.

On Thursday morning, June 19, there was a joint session with the Western Psychological Association. Professor Helen Walker of Columbia University was chairman. The program was as follows:

- Topic: *Statistical Problems in Psychology.*
 Papers: *Statistical Criteria of the Effectiveness of Selective Procedures.*
 R. F. Jarrett, University of California, Berkeley.
Unsolved Statistical Problems Arising in Psychological Measurements.
 Helen Walker, Columbia University.
Cost Utility Curves as a Means of Assessing Batteries of Tests.
 Joseph Berkson, Mayo Clinic.
Approaches to Univocal Factor Scores.
 J. P. Guilford, University of Southern California.

The afternoon session on June 19 was under the chairmanship of Professor Harald Cramér of Stockholm, Sweden, and offered the following program:

- Topic: *Theory of Statistics and its Applications to Astronomy.*
 Papers: *Random Variables with Comparable Peakedness.*
 Z. W. Birnbaum, University of Washington.
Distributions which Lead to Regressions Representable by Polynomials.
 Evelyn Fix, University of California, Berkeley.
Optimum Tests of Composite Hypotheses with One Constraint.
 Erich L. Lehmann, University of California, Berkeley.
Estimation of a Distribution Function by Confidence Limits.
 Frank J. Massey, Jr., University of California, Berkeley.
A Note on Sequential Confidence Sets.
 Charles Stein, Columbia University.

Certain Types of Statistical Problems in Astronomy.

Robert J. Trumpler, University of California, Berkeley.

Basic Concepts of the Theory of Statistics in Relation to Certain Problems of Astronomy.

J. Neyman, University of California, Berkeley.

A Note on the Problem of Binary Stars.

Elizabeth L. Scott, University of California, Berkeley.

Explicit Solution of the Problem of Fitting a Straight Line when both Variables are Subject to Error for the Case of Unequal Weights. (By title)

Elizabeth L. Scott, University of California, Berkeley.

Power Function of the Analysis of Variance and Covariance Test of a Normal Bivariate Population. (By title)

Way Ming Chen, University of California, Berkeley.

Unbiased Estimates with Minimum Variance. (By title)

Charles Stein, Columbia University.

Sufficient Statistics and a System of Partial Differential Equations. (By title)

Erich L. Lehmann, University of California, Berkeley, and Henry Scheffé, University of California, Los Angeles.

On Wednesday evening, June 18, at 6 o'clock, there was a dinner for members and guests, at the Hotel San Diego.

P. S. DWYER
Secretary