# THE ANNUAL MEETING OF THE SOCIETY

The fifty-third Annual Meeting of the American Mathematical Society was held at Swarthmore College, Swarthmore, Pennsylvania, Thursday to Sunday, December 26–29, 1946, in conjunction with the Annual Meeting of the Mathematical Association of America. Over five hundred persons registered, including the following four hundred three members of the Society:

J. C. Abbott, C. R. Adams, R. B. Adams, Louise Adams, V. W. Adkisson, R. P. Agnew, C. B. Allendoerfer, Warren Ambrose, R. F. Arens, H. E. Arnold, Emil Artin, Silvio Aurora, M. C. Ayer, Frank Ayres, W. L. Ayres, R. P. Bailey, D. H. Ballou, J. D. Bankier, E. W. Barankin, Joshua Barlaz, P. T. Bateman, F. W. Beal, H. P. Beard, T. J. Benac, A. A. Bennett, Theodore Bennett, Stefan Bergman, Felix Bernstein, Lipman Bers, M. T. Bird, Z. W. Birnbaum, W. A. Blankinship, W. E. Bleick, Henry Blumberg, M. L. Boas, R. P. Boas, T. A. Botts, S. G. Bourne, J. G. Bowker, H. W. Brinkmann, Foster Brooks, R. H. Bruck, C. T. Bumer, R. S. Burington, A. W. Burks, Herbert Busemann, Hobart Bushey, J. H. Bushey, K. E. Butcher, S. S. Cairns, E. J. Camp, R. C. Campbell, H. H. Campaigne, Achille Capecelatro, P. A. Caris, F. E. Carner, H. C. Carter, W. C. Carter, W. B. Carver, J. E. Case, Omar Catunda, F. L. Celauro, Subrahmanyan Chandrasekhar, J. O. Chellevold, W. F. Cheney, K. L. Chung, Alonzo Church, Randolph Church, Edmund Churchill, R. V. Churchill, J. A. Clarkson, R. F. Clippinger, A. B. Coble, Nathaniel Coburn, E. A. Coddington, I. S. Cohen, L. W. Cohen, Nancy Cole, Esther Comegys, J. A. Cooley, T. F. Cope, Richard Courant, W. H. H. Cowles, V. F. Cowling, G. F. Cramer, A. R. Craw, H. B. Curry, J. H. Curtiss, E. H. Cutler, James Elmer Davis, L. J. Deck, F. F. Decker, C. H. Denbow, A. H. Diamond, L. L. Dines, H. L. Dorwart, T. L. Downs, F. W. Dresch, Arnold Dresden, D. M. Dribin, Roy Dubisch, R. J. Duffin, Nelson Dunford, J. C. Durand, John Dyer-Bennet, E. D. Eaves, Nat Edmonson, J. E. Eaton, W. F. Eberlein, Samuel Eilenberg, Wade Ellis, Paul Erdös, W. H. Fagerstrom, Herbert Federer, William Feller, F. G. Fender, F. A. Ficken, N. J. Fine, L. R. Ford, Tomlinson Fort, M. C. Foster, R. M. Foster, F. H. Fowler, R. H. Fox, J. S. Frame, M. R. Freundlich, R. E. Fullerton, A. S. Galbraith, David Gale, C. S. Gardner, G. N. Garrison, L. L. Gavurin, H. M. Gehman, B. H. Gere, F. J. Gerst, J. H. Giese, B. P. Gill, Wallace Givens, A. M. Gleason, R. E. Gleason, Casper Goffman, V. D. Gokhale, Michael Goldberg, H. H. Goldstine, R. A. Good, A. W. Goodman, R. O. Goodman, S. H. Gould, A. A. Grau, Lewis Greenwald, George Grossman, C. C. Grove, E. J. Gumbel, Margaret Gurney, W. W. Gutzman, M. R. Hafner, Theodore Hailperin, R. W. Hamming, E. S. Hammond, G. H. Handelman, O. G. Harrold, A. E. Heins, M. H. Heins, Erik Hemmingsen, Aaron Herschfeld, T. H. Hildebrandt, Einar Hille, G. P. Hochschild, D. L. Holl, T. R. Hollcroft, E. M. Hove, E. M. Hull, M. G. Humphreys, W. A. Hurwitz, H. D. Huskey, W. R. Hutcherson, M. H. Ingraham, W. H. Ingram, S. B. Jackson, Herbert Jehle, E. D. Jenkins, Fritz John, Madeline Johnsen, R. F. Johnson, B. W. Jones, Bjarni Jónsson, Mark Kac, M. L. Kales, Hyman Kamel, L. H. Kanter, Irving Kaplansky, William Karush, M. E. Kellar, D. E. Kibbey, J. R. Kline, E. G. Kogbetliantz, E. R. Kolchin, Horace Komm, C. F. Kossack, H. L. Krall, R. R. Kuebler, H. W. Kuhn, Wouter van der Kulk, M. E. Ladue, H. G. Landau, G. A. Larew, V. V. Latshaw, J. A. Larrivee,

C. G. Latimer, P. D. Lax, Solomon Lefschetz, Joseph Lehner, Marguerite Lehr. R. A. Leibler, Walter Leighton, B. A. Lengyel, C. A. Lester, Howard Levi, Harry Levy, A. L. Lewis, J. V. Lewis, F. W. Light, A. T. Lonseth, Lee Lorch, E. D. McCarthy, S. L. McDonald, D. L. McDonough, S. S. McNeary, C. C. MacDuffee, Saunders MacLane, H. F. MacNeish, Ingo Maddaus, J. D. Mancill, H. B. Mann, Murray Mannos, R. H. Marquis, M. H. Martin, W. T. Martin, P. R. Masani, F. I. Mautner, A. E. Meder, Emanuel Mehr, A. S. Merrill, H. L. Meyer, A. N. Milgram, B. L. Miller, D. D. Miller, L. I. Mishoe, E. E. Moise, Deane Montgomery, Lillian Moore, K. A. Morgan, Vladimir Morkovin, Richard Morris, A. P. Morse, I. R. Moses, B. H. Mount, C. W. Munshower, W. R. Murray, D. S. Nathan, C. A. Nelson, O. E. Neugebauer, Morris Newman, C. V. Newsom, P. B. Norman, C. O. Oakley, L. F. Ollmann, Isaac Opatowski, F. W. Owens, H. B. Owens, J. C. Oxtoby, J. S. Oxtoby, S. T. Parker, G. W. Patterson, E. K. Paxton, L. G. Peck, A. M. Peiser, Anna Pell-Wheeler, B. J. Pettis, H. R. Phalen, C. R. Phelps, R. S. Phillips, Joel Pitcairn, Everett Pitcher, G. B. Price, A. L. Putnam, Hans Rademacher, John Raleigh, J. F.Randolph, S. E. Rasor, G. E. Raynor, F. V. Reno, C. N. Reynolds, D. P. Richardson, R. G. D. Richardson, P. R. Rider, F. D. Rigby, R. F. Rinehart, L. A. Ringenberg, E. K. Ritter, J. B. Robinson, R. M. Robinson, R. E. Root, J. B. Rosenbach, L. J. Rosenbaum, R. A. Rosenbaum, J. H. Rosenbloom, P. C. Rosenbloom, J. B. Rosser, C. W. Saalfrank, Raphael Salem, Hans Samelson, R. G. Sanger, Arthur Sard, S. S. Saslaw, A. T. Schafer, R. D. Schafer, Robert Schatten, Lowell Schoenfeld, I. J. Schoenberg, I. E. Segal, Wladimir Seidel, H. N. Shapiro, Jacob Sherman, Seymour Sherman, D. T. Sigley, M. H. Slud, L. L. Smail, C. V. L. Smith, W. M. Smith, Ernst Snapper, A. K. Snyder, Andrew Sobczyk, F. W. Sohon, E. S. Sokolnikoff, A. H. Sprague, E. R. Stabler, E. P. Starke, F. H. Steen, H. W. Steinhaus, Rothwell Stephens, F. M. Stewart, C. N. Stokes, E. C. Stokes, M. H. Stone, H. F. Story, W. J. Strange, Walter Strodt, Irving Sussman, R. L. Swain, J. L. Synge, Otto Szász, Gabor Szegö, Alexander Tartler, R. L. Taylor, Feodor Theilheimer, R. M. Thrall, E. W. Titt, Leonard Tornheim, Peter Treuenfels, W. J. Trjitzinsky, C. A. Truesdell, A. W. Tucker, J. W. Tukey, J. L. Vanderslice, H. E. Vansant, C. W. Vickery, G. L. Walker, R. J. Walker, A. D. Wallace, J. L. Walsh, J. B. Walton, W. R. Wasow, C. W. Watkeys, G. C. Webber, M. S. Webster, J. V. Wehausen, Alexander Weinstein, M. J. Weiss, E. T. Welmers, L. R. White, G. W. Whitehead, A. L. Whiteman, E. A. Whitman, P. M. Whitman, G. T. Whyburn, L. S. Whyburn, W. M. Whyburn, J. E. Wilkins, S. S. Wilks, K. P. Williams, W. L. Williams, Clement Winston, E. E. Witmer, H. A. Wood, F. M. Wright, M. A. Wurster, Bertram Yood, J. W. Young, J. W. T. Youngs, Daniel Zelinsky, Leo Zippin, Antoni Zygmund.

Sessions for reading contributed papers were held at 3:15 P.M., Friday, at 10:45 A.M. and 3:15 P.M., Saturday, and at 10:00 A.M., Sunday. The presiding officers for these sessions were Dean R. G. D. Richardson, Professor J. L. Walsh, Professor B. W. Jones, Dr. W. M. Whyburn, Professor R. H. Bruck, Professor W. L. Ayres, and Professor R. V. Churchill.

The twentieth Josiah Willard Gibbs lecture was given on Thursday evening by Professor Subrahmanyan Chandrasekhar of the Yerkes Observatory, University of Chicago, on *The transfer of radiation in stellar atmospheres*. President T. H. Hildebrandt presided.

As a token of respect for the late Professor Dunham Jackson and an appreciation of his great and continued interest in mathematics, at the beginning of the general session at 3:15 P.M., Friday, President T. H. Hildebrandt read the abstract of the paper, *The boundedness of orthonormal polynomials on certain curves of the fourth degree*, presented by title on the program of this meeting.

On Friday afternoon with Vice President Saunders MacLane presiding, Professor A. P. Morse of the University of California gave an address entitled *Derivatives and their integrals.*

Saturday afternoon with President Elect Einar Hille presiding, Professor Harald Cramér of the University of Stockholm gave an address entitled *Some aspects of the theory of stochastic processes.*

Sessions of the Mathematical Association of America were held on Thursday afternoon and Friday morning.

At the dinner on Friday evening for mathematicians and their guests, the toastmaster was Professor C. O. Oakley of Haverford College. President J. W. Nason of Swarthmore College gave an address of greeting. Professor W. T. Martin of Massachusetts Institute of Technology spoke on the present state and future prospects of graduate study in mathematics. Professor C. G. Latimer of the University of Kentucky presented resolutions expressing the thanks and appreciation of the members of the Society and of the Association to the President, the local committee, the Department of Mathematics and the staff of Swarthmore College for the excellent arrangements.

The annual business meeting and election of officers was held on Saturday morning, President T. H. Hildebrandt presiding. The proceedings are included later in this report. At the close of the business session President Hildebrandt announced the award of the Cole Prize in Theory of Numbers to Professor H. B. Mann of Ohio State University. Professor Mann gave a brief address on the subject of the prize winning paper, *A proof of the fundamental theorem on the density of sums of sets of positive integers*, Ann. of Math. (2) vol. 43 (1942) pp. 523–527.

Tea was served in Bond Memorial Hall on Thursday, Friday, and Saturday afternoons. A program of chamber music was given on Friday evening. On Saturday evening a number of those attending the meeting attended a concert by the Philadelphia Symphony Orchestra at the Academy of Music in Philadelphia.

At the meeting of the Board of Trustees at 6:00 P.M. on December 26, 1946, in Parrish Hall, there was no quorum present and the Board adjourned to December 30, 1946. The Council met at 9:20 P.M. on

December 26 and at 8:30 P.M. on December 27, 1946, in the Board Room of Clothier Memorial.

The Secretary announced the election of the following fifty-three persons to ordinary membership in the Society:

Mr. Max Beberman, Nome Territorial High School, Nome, Alaska;
Professor Ferdinand Pierre Beer, Williams College;
Mr. Howard Curtis Bennett, Syracuse University;
Mr. Joseph Blum, U. S. Geological Survey, Arlington, Va.;
Mr. Alan Cathcart, New York, N. Y.;
Professor Omar Catunda, University of São Paulo, São Paulo, Brazil;
Dr. Jeremiah Certaine, Naval Research Laboratory, Washington, D. C.;
Professor John Olson Chellevold, Lehigh University;
Mr. Benjamin Frederic Cheydleur, Naval Ordnance Laboratory, Washington, D. C.;
Mr. Kai-lai Chung, Princeton University;
Dr. Francis M. Crist, Collingswood, N. J.;
Mr. Stephen Peter Diliberto, Princeton University;
Dr. Wallace John Eckert, International Business Machines, New York, N. Y.;
Mr. Thomas Anthony Elkins, Gulf Research and Development Company, Pittsburgh, Pa.;
Mr. David Owen Ellis, University of Missouri;
Mr. Alvaro Ferlini, St. Joseph College, West Hartford, Conn.;
Mr. Emanuel Fischer, College of the City of New York;
Dr. Cleota G. Fry, Purdue University;
Mr. Edwin Culbert Gras, U. S. Naval Academy;
Mr. Arthur Armstrong Hauser, Jr., Rensselaer Polytechnic Institute;
Professor Donald Milton Hester, New Mexico School of Mines;
Mr. Joseph Hilsenrath, Lieutenant Commander, U.S.N.R., Naval Ordnance Laboratory, Washington, D. C.
Dr. Madeline Johnsen, Purdue University;
Professor D. D. Kosambi, Tata Institute of Fundamental Research, Bombay, India;
Mr. Roy Raymond Kuebler, Jr., Dickinson College, Carlisle, Pa.;
Mr. Chester William Leaman, Carnegie Institute of Technology;
Mr. George Bernard LeBeau, The Thompson and Lichtner Company, Inc., Boston, Mass.;
Mr. Harold Fletcher Mathis, Northwestern University;
Mr. William James McCallion, McMaster University;
Professor Luna Isaac Mishoe, Delaware State College, Dover, Del.;
Mr. Benjamin Harrison Mount, Jr., University of Pittsburgh;
Mr. Chester Ray Morris, Indiana University;
Mr. Wilburn Avery Nicholson, Jr., American Telephone and Telegraph Company, Charlotte, N. C.;
Professor Joseph Donald Novak, University of South Carolina;
Dr. Christian Yvon Pauc, Faculté des Sciences de Marseille;
Mr. Donald Knight Pease, University of Connecticut;
Mr. Roy I. Pepper, University of Tennessee;
Professor Balthasar van der Pol, Delft University and N. V. Philips' Laboratory, Eindhoven, Holland;
Mollie A. Rubenstein (Mrs. Herbert), Columbia University;

Mr. Hans Rudberg, Iron Refining Co., Haelleforsnaes, Sweden;
Mr. Pierre Samuel, Princeton University;
Mr. Albert Schild, University of Pennsylvania;
Professor Emil Schoenbaum, Charles University, Prague, Czechoslovakia;
Mr. Harold N. Shapiro, Princeton University;
Mr. David Singer, College of the City of New York;
Mr. Robert Sips, Union Chemique Belge, Brussels, Belgium;
Mr. Robert Stock, University of Montreal;
Professor Nellie R. Swanson, State Teachers College, Minot, N. D.;
Mr. Edward Arthur Trabant, Purdue University;
Professor Hsu-Shen Tsien, Massachusetts Institute of Technology;
Professor Gilbert Ulmer, University of Kansas;
Professor Philon Vassiliou, University of Engineering Science, Athens, Greece;
Mr. Joseph Lawrence Zemmer, Jr., Tulane University of Louisiana.

It was reported that the following had been elected to membership on nomination of institutional members as indicated:

Brown University: Messrs. Maynard Goodwin Arsove and Joel Saul Isenberg, Dr. Wouter van der Kulk, Mr. Robert Whittaker Schmied;
Bryn Mawr College: Miss Frances Elizabeth Crook;
University of California: Mr. Roy Bergh Leipnik;
University of California at Los Angeles: Messrs. Harold Luxenberg and Harold Shniad;
California Institute of Technology: Messrs. Richard William Davies, Irving Stoy Reed, Carl Hertz Savit, and George Finlay Simmons;
University of Cincinnati: Messrs. Louis Francis Doty and William Henry Spragens, Jr.;
Columbia University: Mr. Lester Lipman Gavurin, Miss Mary Stuart Gwathmey, Mr. Alex Heller;
Duke University: Mr. Frank Eugene Clark;
Harvard University: Messrs. Rowland Edward Cross, Clifford Speer Gardner, Ivan Raymond Hershner, Jr., and William Alonzo Hosier;
Johns Hopkins University: Reverend Richard Ernest Ingram, Messrs. Hans Jakob Reiter and Robert Peter Rich;
University of Illinois: Messrs. Dwight Benjamin Goodner, I. Henson Harris, Selmer Martin Johnson, Max S. Kramer, and George Francis Leger, Miss Vivian Rose Nuess, Messrs. John Abraham Schumaker, Henry Schutzberger, Laurie James Snell, Joseph Jean Stipanowich and Fred William Thalgott;
Illinois Institute of Technology: Messrs. Maurice Lee Anthony, Robert Richard Bentley, Herbert John Curtis, Richard Harbin Edwards, Newton Seymour Hawley, Sheldon Leonard Levy and Alexander Medina, Dr. Anatol Rapoport, Mrs. Mary Katherine Rapp, Professor Eli Sternberg;
Immaculata College: Sister Mary Raphael Hafner;
Indiana University: Lee Detmer Pruett (Mrs. J. R.);
Institute for Advanced Study: Professors Karol Borsuk, Li-Fu Chiang, Loo-Keng Hua, and George Lawrence Kreezer, Dr. Shih-Tsun Ma, Mr. Friederich Ignaz Mautner;
Iowa State College: Mr. William Matthewson Stone;
University of Kansas: Mr. William Calvin Foreman;
Lehigh University: Messrs. Leon Benson and Robert Harry Spohn;

Massachusetts Institute of Technology: Messrs. Hsieh Chang, James Dugundji, Joe Reeder Foote, Elmer Jacob Frey, Edgar Nelson Gilbert, and Raymond Moos Redheffer;
University of Michigan: Miss Winifred Kip Burroughs, Messrs. George Richard Costello, David Gale, Luang-Feng Hsieh, Gustave Rabson, Ward Conrad Sangren, Arnold Samuel Shapiro, Robert Lawrence Taylor, and Martin T. Wechsler;
University of Minnesota: Mr. Bernard W. Lindgren;
Northwestern University: Mr. G. Melvin Bloom, Miss Dorothy Marie DeWitt;
Ohio State University: Messrs. Landon A. Colquitt and Harold Ellsworth Tinnappel;
University of Oregon: Miss Shirley Kathryn Anderson;
University of Pennsylvania: Messrs. Hyman Kamel and Ching-Tsiin Loo;
Purdue University: Sister M. Agnes Hatke, Messrs. Paul Eugene Irick, Maurice M. Lemme and Fred Charles Leone, Dr. Walter Phillip Reid;
Swarthmore College: Dr. Bernard Lewis Miller;
Syracuse University: Mr. Daniel Resch;
Texas Technological College: Mr. Bob Parker;
University of Virginia: Mr. Wesley Emory Pace, Professor Lucille Enid Whyburn;
Williams College: Mr. Chester Wallace Jordan;
Yale University: Mr. Alfred Edward Roberts, Jr.

The Secretary announced that Professor Heinz Hopf of Eigenössische Technische Hochschule, Zurich, Switzerland, had been admitted to the Society in accordance with the reciprocity agreement with the Swiss Mathematical Society and that the following had been admitted in accordance with the reciprocity agreement with the London Mathematical Society: Professor Selig Brodetsky, University of Leeds; Professor Harald Cramér, University of Stockholm, Dr. Bernard Hermann Neumann, University College of Hull.

The Secretary announced the election by mail of Lehigh University, Illinois Institute of Technology and Rice Institute to institutional contributing membership in the Society. The following were elected to institutional membership at the meetings of the Council: University of Alabama, University of Arizona, University of Georgia, Kenyon College, University of Maryland, Oklahoma Agricultural and Mechanical College, University of Saskatchewan, Temple University, Department of Pure Mathematics, University of Texas.

The Secretary is pleased to report at this time that the ordinary membership in the Society is now 3,233, including 299 nominees of institutional members and 59 life members. There are also 101 institutional members. The total attendance at all meetings in 1946 was 1,925; the number of papers read was 477; there were 14 hour addresses, 2 symposium addresses, 1 Gibbs Lecture, 4 Colloquium Lectures, and 1 Retiring Presidential Address; the number of members attending at least one meeting was 1,079.

The following appointments by President T. H. Hildebrandt of representatives of the Society were reported: Professor Morgan Ward

at the inauguration of Arthur Gardiner Coons as President of Occidental College on October 3, 1946; Professor H. R. Brahana at the Centennial Celebration of MacMurray College on October 8–10, 1946; Professor J. B. Rosenbach at the inauguration of James Herbert Case, Jr., as President of Washington and Jefferson College on October 25, 1946; Professor W. B. Fite at the inauguration of Sarah Gibson Blanding as President of Vassar College on October 11, 1946; Professor G. W. Hess at the Celebration of the Fiftieth Anniversary of the Founding of Alabama College on October 12–14, 1946; Professor R. P. Agnew at the inauguration of Richard Leighton Greene as President of Wells College on November 1, 1946; Professor V. H. Tingey at the inauguration of Albert Ray Olpin as President of The University of Utah on October 15–16, 1946; Professor W. M. Smith at the inauguration of Martin Dewey Whitaker as President of Lehigh University on October 20, 1946; Professor Gillie A. Larew at the inauguration of Martha Lucas as President of Sweet Briar College on November 1, 1946; Professor G. A. Hedlund at the inauguration of George Matthews Modlin as President of the University of Richmond on November 15–16, 1946; Professor Dorothy McCoy at the inauguration of Fred Tom Mitchell as President of Mississippi State College on November 16, 1946; Professor Arnold Dresden at conference of Commission for International Educational Reconstruction on November 22–23, 1946; Professor J. L. Synge on the Policy Board of the abstracting journal in applied mechanics to be published by the American Society of Mechanical Engineers.

The following additional appointments by the President were reported: Professors J. I. Tracey (Chairman), E. G. Begle, B. H. Camp, Nelson Dunford, T. R. Hollcroft, and B. W. Jones as a Committee on Arrangements for the 1947 Summer Meeting at Yale University; Professors Tomlinson Fort (Chairman), D. F. Barrow, T. R. Hollcroft, B. W. Jones, H. A. Robinson, J. M. Thomas, and J. A. Ward as a Committee on Arrangements for the 1947 Annual Meeting at the University of Georgia; Professors C. C. MacDuffee (Chairman), B. P. Gill, and Solomon Lefschetz as a committee to confer with the editors of the Annals of Mathematics regarding publication problems; Professors J. L. Synge (Chairman), R. V. Churchill, Richard Courant, G. C. Evans, W. T. Martin, John von Neumann, and J. W. Tukey as a committee to discuss the Society's relations with applied mathematicians; Professors Arnold Dresden (Chairman), P. A. Smith, and Leo Zippin as a committee to supervise the distribution of material to devastated libraries; Professors M. H. Martin (Chairman), J. H. Taylor and G. T. Whyburn as a committee to study mate-

rial regarding the undergraduate origins of Ph.D.'s in Mathematics, collected by the Office of Scientific Personnel; Professors P. A. Caris and Mary-Elizabeth Ladue, Dr. E. R. Kolchin as tellers for the election at the 1946 Annual Meeting; Dean E. B. Stouffer (Chairman), Professors L. M. Graves and J. R. Kline as a committee to nominate representatives of the Society on the Policy Committee for Mathematics; Professor A. W. Tucker as a member of the Committee on the Role of the Society in Mathematical Publication; Professor J. L. Walsh (Chairman), Dr. R. P. Boas, Professors B. P. Gill, M. R. Hestenes, Dean M. H. Ingraham, Professors J. R. Kline, R. E. Langer, Morgan Ward and J. W. T. Youngs as a committee to study all possible sources of additional revenue, in particular the possibility of increasing membership dues; Professor D. V. Widder as an additional member of the Emergency Committee for the International Congress of Mathematicians; Professor Oscar Zariski as a member of the Committee to Select Hour Speakers for Summer and Annual Meetings for the period 1947–1948 (committee now consists of Professors J. R. Kline, Chairman, R. P. Agnew, and Oscar Zariski); Professor C. B. Morrey as a member of the Committee to Select Hour Speakers for Far Western Sectional Meetings for the period 1947–1948 (committee now consists of Professors A. C. Schaeffer, Chairman, C. B. Morrey, and Morgan Ward); Professor W. T. Martin as a member of the Committee to Select Hour Speakers for Eastern Sectional Meetings for the period 1947–1948 (committee now consists of Professors T. R. Hollcroft, Chairman, W. T. Martin, and A. W. Tucker); Professor Ralph Hull as a member of the Committee to Select Hour Speakers for Western Sectional Meetings for the period 1947–1948 (committee now consists of Professors R. H. Bruck, Chairman, Ralph Hull, and N. E. Steenrod).

The Council voted to continue Professor T. H. Hildebrandt as a member of the Emergency Committee for the International Congress of Mathematicians.

The Council appointed Professor Solomon Lefschetz as a representative of the Society on the Council of the American Association for the Advancement of Science for the year 1947.

Professor R. E. Langer was elected by the Council to serve as the Society's representative on the Policy Committee for Mathematics, for a period of four years beginning January 1, 1947. (Professor Langer succeeds Professor G. C. Evans.)

It was reported that Professor P. M. Morse of Massachusetts Institute of Technology had accepted the invitation to deliver the twenty-first Josiah Willard Gibbs Lecture at the 1947 Annual Meet-

ing. It was also reported that Professor T. Y. Thomas had found it impossible to accept the invitation to deliver a series of Colloquium Lectures at the 1948 Summer Meeting.

The Secretary reported that the Rockefeller Foundation had extended the period of its grant to the Society for the International Congress of Mathematicians to December 31, 1950.

The Council adopted the following resolution on the death of Professor Dunham Jackson:

After long suffering Dunham Jackson died November 6, 1946, at the age of fifty-eight. He is survived by his wife and two daughters.

Jackson obtained his Ph.D. degree at Göttingen in 1911 under Landau. In 1919 he left Harvard University to become a professor at the University of Minnesota, where he remained until his death.

This is not the place to review his important scientific achievements which are represented by many articles and by books and by a large number of dissertations written under his direction.

Between the years 1918 and 1931 Jackson rendered valuable services to the Society as a member of the Council, as a member of the Transactions Editorial Committee, and as a Vice President. He was at one time President of the Mathematical Association, and Vice President and Secretary of Section A of the Association for the Advancement of Science.

Each one of the large number of papers which he presented to the Society revealed his mastery of subject matter as well as his perfection of presentation. In clearness and elegance of exposition he was unsurpassed. This was recognized by the award of the Chauvenet Prize in 1935 for the most excellent expository article in advanced mathematics during the period from 1932 to 1934.

In rare cases it is given to a man to defy long and torturing illness by maintaining creative ability and vital interest in the progress of his students to the very door of death. Such a man was Dunham Jackson. During the last months of his life he approved four dissertations, one of them only weeks before the end. A posthumous paper adorns the present program of the Society.

An occurrence at the beginning of his career illustrates the character of Jackson. As a student at Göttingen he won in open competition an academic prize for a valuable mathematical contribution. The monetary award he turned over to the University of Göttingen for the improvement of American-German student relations.

On behalf of the Society, the Council expresses its deep sorrow at the untimely death of this beloved and distinguished member.

At the annual election which closed on December 28, and at which 704 votes were cast, the following officers were elected:

*President*, Professor Einar Hille.

*Vice President*, Professor P. A. Smith.

*Secretary*, Professor J. R. Kline.

*Associate Secretary*, Professor T. R. Hollcroft.

*Treasurer*, Professor B. P. Gill.

*Member of the Editorial Committee of the Bulletin*, Professor R. E. Langer.

*Member of the Editorial Committee of the Transactions*, Professor Antoni Zygmund.

*Member of the Editorial Committee of the Colloquium Publications*, Professor R. L. Wilder.

*Member of the Editorial Committee of Mathematical Reviews*, Professor M. H. Stone.

*Member of the Editorial Committee of Mathematical Surveys*, Professor Nelson Dunford.

*Representative on the Editorial Board of the American Journal of Mathematics*, Professor Hassler Whitney.

*Members at large of the Council*, Dr. H. W. Bode, Professors Samuel Eilenberg, B. O. Koopman, Gordon Pall, and J. W. Tukey.

*Members of the Board of Trustees*, Professors T. H. Hildebrandt, W. R. Longley, and G. W. Mullins, Dean R. G. D. Richardson, Dr. Warren Weaver.

The Librarian reported the following additions to the Library: 218 bound volumes of periodicals, 62 books, 67 pamphlets (including 40 dissertations), and 2 dissertations on microfilm. He reported that the collection of doctoral dissertations is not yet complete, that exchanges with foreign countries had been re-established to a large extent, that a list of additions to the library since the completion of the catalogue manuscript would be published in the January number of the Bulletin.

In an appendix to this report are excerpts from the report of the Treasurer for the fiscal year 1946 as verified by the auditors. A copy of the complete report will be sent, on request, to any member.

The American Journal of Mathematics reported that it had published 688 pages in 1946. The Society contributes an annual subvention of $2,500 to the American Journal.

Times and places for meetings of the Society in 1947 were set as follows: September 2–5, Summer Meeting at Yale University; November 29 at California Institute of Technology; December 29–31, Annual Meeting at University of Georgia. It was reported that the October, 1947, meeting in New York City would be held at Hunter College. On recommendation of the Committee on Places of Meetings, the Council voted to hold the 1948 Summer Meeting at the University of Wisconsin, the 1948 Annual Meeting in New York City (in connection with the Annual Meeting of the American Association for the Advancement of Science), and the 1949 Summer Meeting at the University of Colorado.

Certain invitations to give addresses were announced: Professor N. H. McCoy for the February, 1947, meeting in New York City;

Professor S. S. Wilks for the 1947 Summer Meeting at Yale University.

The Bulletin Editorial Committee reported an increase in the number of papers offered for publication in the Bulletin and the Council and Trustees authorized the publication of an additional one hundred pages in 1947. Professors Herbert Busemann, Maurice Heins, and R. M. Thrall were reported as new Assistant Editors of the Bulletin.

The Transactions Editorial Committee reported that a total of 1106 pages had been published in the 1946 volumes and that Volume 60 had been designated as the Birkhoff Memorial Volume. It was reported that Dr. Irving Kaplansky had been named Associate Editor.

The Mathematical Reviews Editorial Committee reported that the 1946 volume would contain 540 pages, as compared with 284 pages in 1945. It was further reported that a large number of persons, particularly from abroad, had been added to the reviewing staff, in order to take care of the increased amount of material to be reviewed.

The Mathematical Surveys Editorial Committee reported that it expected to receive two or three manuscripts for publication in that series during 1947.

A committee appointed to study the question of revising the By-Laws in such a manner that the terms of office of all members of the Board of Trustees would not expire in the same year recommended that Article V, Section 1, of the By-Laws be amended to read as follows:

ARTICLE V. ELECTIONS AND TERMS OF OFFICERS

Section 1. The term of office shall be two years in the case of the President, the Vice Presidents, the Secretary, the Associate Secretaries, and the Treasurer; three years in the case of the Librarian and the members of the Editorial Committees. The term of office for members at large of the Council shall be three years, five of the members at large retiring annually. In every case, however, the officials specified in Articles I, II, III, and IV shall continue to serve until their successors have been duly elected and qualified.

The term of office in the case of the trustees to be elected at the annual meeting to be held between the fifteenth of December, 1948 and the fifteenth of January, 1949, shall be three years in the case of two of the trustees to be elected and shall be two years in the case of three of the trustees to be elected. Upon the expiration of the terms of office of the trustees elected at the annual meeting to be held between the fifteenth of December, 1948 and the fifteenth of January, 1949, the term of office of all trustees shall be two years.

The Council and Trustees approved this change and voted that it be acted upon by the Society at the February meeting.

Professor Arnold Dresden, chairman of a committee to distribute

mathematical material to devastated libraries, reported that a small amount of material had been received in response to the notice tipped into the August issue of the Bulletin. He further reported that the American Book Center would aid in shipping material to libraries which are to receive aid.

The Council voted to accept the recommendation of the Committee on the Role of the Society in Mathematical Publication that the Annals of Mathematics be granted a temporary subvention of $1,000 for the year 1947 and that the possibility of securing funds for the publication of foreign papers be investigated.

An invitation from Harvard University to hold the International Congress of Mathematicians at that institution in 1950 was referred to the Emergency Committee.

Professors Gordon Pall and D. J. Struik were appointed representatives of the Society on the Editorial Board of the Duke Mathematical Journal for a period of three years beginning January 1, 1947.

The Council authorized the appointment of a committee to study the question of cooperation with the Pan American Congress of Mathematicians to be held in Mexico City in November, 1947, under the auspices of the Mexican Mathematical Society.

The Council voted to adopt a report of the Birkhoff Memorial Committee, providing for the publication of the complete works of the late Professor G. D. Birkhoff by means of the photo-offset process and authorized the appointment of a Finance Committee to handle the solicitation of subscriptions and contributions and an Editorial Committee to edit the collected papers and to decide upon other details such as arrangement, format, and other essential matters.

On the basis of a report of the Special Committee on Applied Mathematics (Professor J. L. Synge, Chairman), the Council adopted the following recommendations: (1) That the Committee on the Role of the Society in Mathematical Publication study the question of financial support to The Journal of Mathematics and Physics and The Quarterly of Applied Mathematics; (2) That a Committee on Applied Mathematics be appointed to organize programs in applied mathematics and to make recommendations to the Council in all matters pertaining to the interests of applied mathematics; (3) That the Society establish an annual symposium on applied mathematics, the Committee on the Role of the Society in Mathematical Publication being requested to study the possibility of the publication of the proceedings of the symposium in book form.

The Council adopted the following recommendations of the Committee on Additional Revenue (Professor J. L. Walsh, Chairman):

(1) That the By-Laws be amended to effect a change in ordinary membership dues, beginning January 1, 1948, to the following rates: $6.00 per year for the first two years of membership, $8.00 per year for the next two years, and $10.00 per year thereafter; (2) That the regular subscription price of the Bulletin be increased to $11.00 per year beginning January 1, 1948; (3) That the customary discount to agents be discontinued after December 31, 1947, for periodicals destined for the United States and Canada. Other recommendations of this committee were referred to the Board of Trustees.

Titles and cross references to papers read at the meeting follow below. Papers 1 to 5 were read Friday afternoon, papers 6 to 16 Saturday morning, papers 17 to 27 Saturday afternoon, papers 28 to 36 Sunday morning, and papers 37 to 71, whose abstract numbers are followed by the letter $t$, were read by title. Dr. Glenn was introduced by Professor T. R. Hollcroft, Dr. Kober was introduced by Professor Einar Hille, and Professor Su was introduced by Professor Oscar Zariski. Paper number 5 was presented by Professor Weinstein, number 7 by Mr. Chung, number 18 by Professor Martin, number 29 by Professor Montgomery, and number 26 by Professor Diamond.

1. Herbert Jehle: *Hydrodynamical self-consistent fields in stellar dynamics.* (Abstract 53-1-72.)

2. J. L. Synge: *The general problem of antenna radiation.* (Abstract 53-1-77.)

3. Nathaniel Coburn: *Application of the Kármán-Tsien relation to the two-dimensional supersonic flow of fluids in jets.* (Abstract 53-1-68.)

4. A. E. Heins: *The scattering and transmission properties of a pair of semi-infinite parallel plates.* (Abstract 53-1-71.)

5. J. B. Díaz and Alexander Weinstein: *On an extremal property of the torsional rigidity.* (Abstract 53-3-141.)

6. Walter Strodt (National Research Fellow): *On the principal solution of a difference equation.* Preliminary report. (Abstract 53-1-50.)

7. K. L. Chung and Paul Erdös: *On the lower limit of sums of independent random variables.* (Abstract 53-1-27.)

8. Casper Goffman: *Fubini interval functions.* (Abstract 53-1-33.)

9. Robert Schatten: *An evaluation of the bound for certain functionals.* (Abstract 53-1-46.)

10. W. F. Eberlein: *Weak compactness in Banach spaces.* (Abstract 52-11-365.)

11. Daniel Zelinsky: *Nonassociative valuations.* (Abstract 53-1-24.)

12. R. H. Bruck: *An extension theory for Moufang loops.* (Abstract 53-1-11.)

13. Isaac Opatowski: *Simple Markoff chains with reverse transitions: the time moments.* (Abstract 53-1-90.)

14. E. J. Gumbel: *The asymptotic distribution of the range.* (Abstract 53-1-88.)

15. R. M. Thrall: *On ahdir algebras.* Preliminary report. (Abstract 53-1-22.)

16. Irving Kaplansky: *Semi-simple algebraic algebras.* (Abstract 53-1-18.)

17. J. D. Mancill: *Unilateral variations with variable end points.* (Abstract 53-1-38.)

18. R. H. Cameron and W. T. Martin: *Fourier-Wiener transforms of functionals belonging to $L_2$ over the space C.* (Abstract 53-1-26.)

19. W. J. Trjitzinsky: *Singular integral equations with complex-valued kernels.* (Abstract 53-1-56.)

20. J. W. T. Youngs: *Remarks on the isoperimetric inequality for closed Fréchet surfaces.* (Abstract 53-1-61.)

21. Leonard Tornheim: *Harmonic series in two variables.* (Abstract 53-1-55.)

22. A. M. Gleason: *A theorem on Banach spaces.* Preliminary report. (Abstract 53-1-31.)

23. Wallace Givens: *Parametric solution of linear homogeneous Diophantine equations.* (Abstract 53-1-14.)

24. Gabor Szegö: *The capacity of a circular plate-condenser.* (Abstract 53-1-78.)

25. J. S. Frame: *Group decomposition by double coset matrices.* (Abstract 53-1-13.)

26. A. H. Diamond and J. C. C. McKinsey: *A relation between algebras and their subalgebras.* (Abstract 53-3-116.)

27. R. J. Duffin: *Function classes invariant under the Fourier transform.* (Abstract 53-3-127.)

28. E. E. Moise: *An indecomposable plane continuum which is homeomorphic to each of its nondegenerate subcontinua.* (Abstract 53-1-101.)

29. Salomon Bochner and Deane Montgomery: *Groups on analytic manifolds.* (Abstract 52-11-397.)

30. Samuel Eilenberg: *Simplicial products of simplicial complexes.* (Abstract 53-1-97.)

31. C. A. Truesdell: *On a class of differential-difference equations.* (Abstract 53-1-57.)

32. Otto Szász: *On closed sets of rational functions.* (Abstract 53-1-51.)

33. I. J. Schoenberg: *On totally positive functions, Laplace integrals*

*and entire functions of the Laguerre-Pólya-Schur type.* (Abstract 53-1-47.)

34. P. C. Rosenbloom: *Studies on the heat equation.* (Abstract 53-1-45.)

35. O. E. Glenn: *A differential equation that plays a part in a mathematical theory of biological variation.* (Abstract 53-1-32.)

36. V. F. Cowling: *A generalization of a theorem of LeRoy and Lindelöf.* (Abstract 52-11-362.)

37. R. F. Arens: *Pseudo-normed algebras.* (Abstract 53-1-93-*t.*)

38. R. F. Arens: *Representation of rings in which $x^p = x$.* (Abstract 53-1-2-*t.*)

39. Reinhold Baer: *The double chain condition in cyclic operator groups.* (Abstract 53-1-6-*t.*)

40. J. D. Bankier: *Extended regular continued fractions.* (Abstract 53-1-7-*t.*)

41. Stefan Bergman: *On functions satisfying certain partial differential equations of elliptic type and their representation.* I. (Abstract 53-3-122-*t.*)

42. Stefan Bergman: *On functions satisfying certain partial differential equations of elliptic type and their representation.* II. (Abstract 53-3-123-*t.*)

43. Stefan Bergman and Menahem Schiffer: *A representation of Green's and Neumann's functions in the theory of partial differential equations of second order.* Preliminary report. (Abstract 53-3-124-*t.*)

44. Garrett Birkhoff: *Notes on lattices.* (Abstract 53-1-9-*t.*)

45. Garrett Birkhoff: *Subdirect representation of certain algebras.* (Abstract 53-1-10-*t.*)

46. Claude Chevalley and Samuel Eilenberg: *Cohomology theory of Lie groups and Lie algebras.* (Abstract 53-1-96-*t.*)

47. H. S. M. Coxeter: *The product of three reflections.* (Abstract 53-1-69-*t.*)

48. John DeCicco: *Union-preserving transformations of higher surface elements.* (Abstract 52-11-389-*t.*)

49. Bernard Epstein: *A method for the approximate solution of the Dirichlet problem for certain types of domains.* Preliminary report. (Abstract 53-1-70-*t.*)

50. C. J. Everett: *Representation of a sequence of finite sets.* (Abstract 53-1-98-*t.*)

51. G. E. Forsythe: *On Nörlund summability of random variables to zero.* (Abstract 53-1-87-*t.*)

52. Evelyn Frank: *On methods for the location of the zeros of complex polynomials.* (Abstract 53-1-30-*t.*)

53. Edwin Hewitt: *Rings of unbounded continuous functions.* (Abstract 53-1-99-*t.*)

54. L. K. Hua: *Geometries of matrices. II. Study of involutions in the geometry of symmetric matrices.* (Abstracts 53-1-15-*t.*)

55. L. K. Hua: *On the automorphisms of the symplectic group over any field.* Preliminary report. (Abstract 53-1-16-*t.*)

56. Dunham Jackson: *The boundedness of orthonormal polynomials on certain curves of the fourth degree.* (Abstract 53-1-35-*t.*)

57. Nathan Jacobson: *On the theory of primitive rings.* (Abstract 53-3-158-*t.*)

58. Edward Kasner and John DeCicco: *Rational harmonic curves.* (Abstract 53-1-84-*t.*)

59. Herman Kober: *Approximation of non-bounded functions by integral functions of finite order.* (Abstract 53-1-36-*t.*)

60. Kenneth May: *The aggregate effect of technological changes in a two-industry model.* (Abstract 53-1-75-*t.*)

61. B. E. Meserve: *Division sequences by cross-multiplication.* (Abstract 53-1-19-*t.*)

62. M. O. Reade: *On areolar monogenic functions.* (Abstract 53-1-44-*t.*)

63. Buchin Su: *Descriptive collineations in spaces of K-spreads.* (Abstract 53-3-155-*t.*)

64. Y. W. Tschen: *Existence of minimal surfaces with a simple pole and normal derivative equal to zero on boundary.* Preliminary report. (Abstract 53-3-136-*t.*)

65. Alexander Weinstein: *On the generalized Stokes-Beltrami equations.* (Abstract 53-1-58-*t.*)

66. D. W. Western: *Inequalities of the Markoff and Bernstein type for integral norms.* (Abstract 53-3-137-*t.*)

67. J. E. Wilkins: *The growth of the solutions of a certain linear integro-differential equation.* (Abstract 53-1-59-*t.*)

68. Jacob Wolfowitz: *On the efficiency of unbiased sequential estimates.* (Abstract 53-1-92-*t.*)

69. G. S. Young: *On compact fiberings of the plane.* (Abstract 53-1-105-*t.*)

70. G. S. Young: *On converging sequences of 2-manifolds.* (Abstract 53-1-106-*t.*)

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T. R. HOLLCROFT,
*Associate Secretary*

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EXCERPTS FROM REPORT OF TREASURER

December 13, 1946

TO THE BOARD OF TRUSTEES OF THE
   AMERICAN MATHEMATICAL SOCIETY

Gentlemen:

I have the honor to submit herewith the report of the Treasurer for the fiscal year ended November 30, 1946. The following comments may be of interest.

*Investment Portfolio*

On November 30, 1946, the market value of securities held for Invested Funds exceeded book value by $13,240, and the market value of securities held for Current Funds exceeded book value by $417. In view of these figures and of the large amount of U. S. Government bonds in the portfolio, the reserves held in accounts "Reserve for Investment Losses" and "Profit on Sales of Securities" may still be considered adequate protection against contingent depreciation in market value.

The following is a summary of the changes in security holdings made on authorization of the Board of Trustees during the year.

Acquired by Purchase:

| | |
|---|---|
| $39,000 | U. S. Savings Ser. G. Reg. $2\frac{1}{2}$s 1958 |
| $ 5,000 | Texas and Pacific Rwy. Gen. and Ref. Ser. E $3\frac{7}{8}$s 1985 |
| 100 shares | Aetna Insurance Co. |
| 50 shares | Allied Chemical and Dye Corp. |
| 50 shares | Bethlehem Steel Corp. 7% Cum. Pfd. |
| 65 shares | Radio Corp. of America $3.50 Cum. Pfd. |

Acquired by Exchange:

| | |
|---|---|
| 50 shares | Northern States Power Co. of Minnesota $3.60 Cum. Pfd. for 50 shares Northern States Power Co. of Minnesota 5% Cum. Pfd. |

Sold or Recalled:

| | |
|---|---|
| $6,000 | U. S. Treasury 2s 1952–50 |
| $8,000 | U. S. Treasury 2s 1954–52 |
| $3,500 | U. S. Treasury $2\frac{1}{2}$s 1969–64 |
| $5,000 | Columbia Gas and Electric Corp. 5s 1961 |

$5,000        Consolidated Edison Co. of New York 3½s 1948
$5,000        Gas and Electric Co. of Bergen County Gen. 5s 1954
$1,000        New England Telephone and Telegraph Co. 1st B
                  4½s 1961–58
$5,000        New York, Chicago and St. Louis RR Ref. 3¾s 1975
$3,000        Oregon Washington RR and Navigation Co. Ref.
                  A 3s 1960
    50 shares  Crane Co. 3¾% Cum. Pfd.
   100 shares  Continental Can Co. Inc.
    50 shares  Public Service Corp. of New Jersey 7% Cum. Pfd.
    25 rights  American Telephone and Telegraph Co.

The investment portfolio, valued at market November 30, 1946, now includes Government bonds 36.6 per cent, other bonds 8.2 per cent, preferred stock 12.4 per cent, common stock 36.1 per cent, cash in savings bank 6.7 per cent.

*Income from Investments*

Income received during the year from investment of Current Funds amounted to $1,644, exclusive of $95 earmarked for International Congress. This represents a return of just under 2.4 per cent computed on average book value of investments. Income on Invested Funds amounted to $7,317, representing a return of just under 3.8 per cent. Total investment income from all sources was $9,056, representing a return just under 3.37 per cent.

Income from the Henderson Estate was $4,800; in 1945 it was $4,750.

*Increase in Surplus and Assets*

Surplus account shows an increase of $9,971, while the net increase in assets for the year was $7,816. This last figure is at once surprising and somewhat illusory. Noticeably increased costs of publication were to a considerable extent offset by dues payments from members reinstated during the year and from dues and initiation fees from an unexpectedly large number of new members. Investment income amounted to some $400 more than in the previous year. Sales of all publications were extremely heavy, the Colloquium series for example showing receipts more than $2,500 in excess of 1945. Sales of securities netted profits of over $1,000.

But some $7,000 of expenses for which provision was made in the year's estimates were not disbursed during the year because of various delaying conditions. Nearly all of this represents costs of new Col-

loquium volumes now in process of publication, and of necessary re-printing of exhausted issues of the Bulletin and Transactions. In addition, some $1,300 of advance dues for 1947 were paid by institutional members. If it had not been for these two facts, operations for the year would have shown a small net loss. On the other hand intensive activity by Mathematical Reviews in reducing "backlog" accumulated during the war years resulted in a reduction of over $6,250 in the net assets which has been charged against the balance built up.

I trust that these more than usually detailed remarks will make it clear that it is extremely difficult this year to describe in any general way the outcome of the year's activities without careful analysis of individual items in the schedules and the exhibits submitted herewith.

Respectfully submitted,
BENNINGTON P. GILL,
*Treasurer*

# BALANCE SHEET

## *Assets*

|  | November 30, 1946 | November 30, 1945 |
|---|---|---|
| **CURRENT FUNDS:** | | |
| Cash...................................... | $ 26,130.60 | $ 24,868.41 |
| Investments............................... | 60,837.08 | 54,433.13 |
|  | $ 86,967.68 | $ 79,301.54 |
| **INVESTED FUNDS:** | | |
| Cash...................................... | $     652.40 | $  5,833.06 |
| Investments............................... | 192,874.73 | 187,543.57 |
|  | $193,527.13 | $193,376.63 |
| TOTAL ASSETS.......................... | $280,494.81 | $272,678.17 |

## *Liabilities*

|  | | |
|---|---|---|
| **CURRENT FUNDS:** | | |
| Mathematical Reviews....................... | $  7,389.34 | $ 13,637.34 |
| Colloquium................................. | 9,495.90 | 9,310.80 |
| Mathematical Surveys....................... | 1,796.87 | 1,250.95 |
| Library Catalogue.......................... |  | 1,868.68 |
| Reprinting Funds........................... | 5,780.67 | 3,310.24 |
| Prize Funds and Other Special Funds Accumulated Income................................. | 5,591.42 | 4,518.11 |
| International Congress....................... | 6,321.92 | 6,331.71 |
| Policy Committee........................... | 913.34 | 143.25 |
| Sinking Fund............................... | 960.65 | 820.91 |
| Profit on Sales of Securities.................... | 982.60 | 413.36 |
| Miscellaneous............................... | 159.24 | 91.60 |
| Surplus.................................... | 47,575.73 | 37,604.59 |
|  | $ 86,967.68 | $ 79,301.54 |
| **INVESTED FUNDS:** | | |
| Endowment Fund Principal................... | $ 71,000.00 | $ 71,000.00, |
| Prize Funds and Other Special Funds........... | 31,033.22 | 31,033.22 |
| Life Membership and Subscription Reserve....... | 3,563.40 | 3,866.88 |
| Colloquium................................. | 5,000.00 | 5,000.00 |
| Mathematical Reviews....................... | 65,000.00 | 65,000.00 |
| Reserve for Investment Losses................. | 4,385.89 | 4,385.89 |
| Profit on Sales of Securities.................... | 13,544.62 | 13,090.64 |
|  | $193,527.13 | $193,376.63 |
| TOTAL LIABILITIES....................... | $280,494.81 | $272,678.17 |

# SUMMARY STATEMENT OF INCOME
## AND EXPENDITURES
### 1945–1946

| | 1946 Receipts | 1946 Disbursements | 1945 Receipts | 1945 Disbursements |
|---|---|---|---|---|
| **GENERAL RECEIPTS:** | | | | |
| Dues—Ordinary Memberships | $20,761.05 | | $18,346.37 | |
| Dues—Contributing Memberships | 951.54 | | 978.64 | |
| Dues—Institutional Memberships | 8,362.60 | | 7,013.32 | |
| Initiation Fees | 1,139.22 | | 445.00 | |
| Investment Income | 10,130.97 | | 9,694.54 | |
| Miscellaneous | 290.79 | | 261.74 | |
| Grant from Rockefeller Foundation for Policy Committee | 3,000.00 | | 2,500.00 | |
| **GENERAL DISBURSEMENTS:** | | | | |
| Secretaries | | $ 7,372.96 | | $ 6,277.52 |
| Treasurer | | 1,200.37 | | 1,153.96 |
| Officers' Traveling | | 629.56 | | 386.69 |
| Furniture and Fixtures | | 601.14 | | |
| Library | | 1,473.46 | | 1,015.67 |
| Policy Committee | | 2,229.91 | | 4,076.16 |
| Printing Contracts Committee | | .59 | | |
| Committee on Aid to Devastated Libraries | | 41.20 | | |
| Emergency | | 120.65 | | 15.82 |
| Total | $44,636.17 | $13,669.84 | $39,239.61 | $12,925.82 |
| Excess of General Receipts | $30,966.33 | | $26,313.79 | |
| **PUBLICATION:** | | | | |
| Bulletin | $ 2,498.87 | $16,425.94 | $ 2,195.05 | $13,194.69 |
| Bulletin Reprinting | 928.75 | | 936.16 | 1,629.45 |
| Transactions | 7,114.07 | 10,215.58 | 6,592.76 | 7,918.76 |
| Transactions Reprinting | 1,541.68 | | 491.75 | 253.48 |
| Colloquium | 5,829.18 | 5,644.08 | 3,266.38 | 1,323.73 |
| Mathematical Reviews | 17,365.28 | 23,613.28 | 15,684.45 | 13,983.20 |
| Mathematical Surveys | 621.51 | 75.59 | 220.49 | 205.64 |
| Semicentennial Publications | 147.71 | 7.97 | 53.09 | 1.14 |
| American Journal | | 2,500.00 | | 2,500.00 |
| Library Catalogue | | 1,868.68 | 2,500.00 | 631.32 |
| Total | $36,047.05 | $60,351.12 | $31,940.13 | $41,641.41 |
| Excess Cost of Publication | | $24,304.07 | | $ 9,701.28 |
| **OTHER** | | | | |
| Special Funds (including Congress) | $ 1,267.91 | $    204.39 | $ 1,283.68 | |
| Profit/Loss on Sales of Securities | 1,023.22 | | | $    280.25 |
| Miscellaneous | 67.64 | | 19.04 | |
| Surplus: | | | | |
| Mathematical Reviews | | 1,000.00 | | 1,000.00 |
| Library Catalogue | | | | 2,500.00 |
| War Policy Committee | | | 334.17 | |
| Total | $ 2,358.77 | $ 1,024.39 | $ 1,636.89 | $ 3,780.25 |
| Difference | $ 1,154.38 | | | $ 2,143.36 |
| Net Change in Assets | $ 7,816.64 | | $14,469.15 | |

| | | |
|---|---|---|
| ASSETS BEGINNING OF YEAR | $272,678.17 | $258,209.02 |
| ASSETS END OF YEAR | $280,494.81 | $272,678.17 |