

## THE APRIL MEETING IN NEW YORK

The four hundred third meeting of the American Mathematical Society was held at Columbia University on Friday and Saturday, April 28–29, 1944. The attendance included the following one hundred seventy-nine members of the Society:

R. L. Anderson, R. G. Archibald, K. J. Arnold, L. A. Aroian, S. P. Avann, A. E. Basch, E. G. Begle, Stefan Bergman, Felix Bernstein, Garrett Birkhoff, G. D. Birkhoff, Gertrude Blanch, M. L. Boas, R. P. Boas, H. F. Bohnenblust, C. B. Boyer, H. W. Brinkmann, A. B. Brown, G. W. Brown, E. L. Buell, R. S. Burington, Hobart Bushey, J. H. Bushey, R. H. Cameron, W. B. Campbell, S. S. Chern, Edmund Churchill, R. V. Churchill, M. D. Clement, Nathaniel Coburn, Harvey Cohn, L. M. Comer, T. F. Cope, Richard Courant, A. P. Cowgill, W. H. H. Cowles, H. B. Curry, M. M. Day, Jesse Douglas, Nelson Dunford, W. L. Duren, William H. Durfee, J. E. Eaton, M. C. Eide, J. M. Feld, A. D. Fialkow, R. M. Foster, F. H. Fowler, G. A. Foyle, Bernard Friedman, K. O. Friedrichs, Orrin Frink, R. E. Fullerton, H. P. Geiringer, Abe Gelbart, David Gilbarg, B. P. Gill, Leonard Gillman, Michael Golomb, A. W. Goodman, R. O. Goodman, F. G. Gravalos, Bernard Greenspan, Lewis Greenwald, C. C. Grove, Laura Guggenbühl, E. J. Gumbel, Jacques Hadamard, P. R. Halmos, Olaf Helmer, A. D. Hestenes, M. R. Hestenes, L. S. Hill, Einar Hille, Abraham Hillman, Harold Hotelling, E. M. Hull, Ralph Hull, Witold Hurewicz, L. C. Hutchinson, B. M. Ingersoll, Florence Jacobson, Nathan Jacobson, S. A. Joffe, Fritz John, A. W. Jones, Aida Kalish, Edward Kasner, P. W. Ketchum, S. A. Kiss, J. R. Kline, E. G. Kogbetliantz, E. R. Kolchin, D. M. Krabill, M. E. Ladue, Howard Levene, Howard Levi, D. C. Lewis, Marie Litzinger, L. H. Loomis, E. R. Lorch, A. N. Lowan, N. H. McCoy, L. A. MacColl, J. K. L. MacDonald, Saunders MacLane, H. F. MacNeish, A. J. Maria, D. H. Maria, Carl Markow, W. T. Martin, D. S. Miller, L. W. Miller, E. C. Molina, Richard Morris, D. J. Morrow, F. J. Murray, C. A. Nelson, Otto Neugebauer, P. B. Norman, L. R. Norwood, C. O. Oakley, F. W. Owens, J. C. Oxtoby, E. L. Post, Walter Prenowitz, A. L. Putnam, Hans Rademacher, Mina Rees, Moses Richardson, R. G. D. Richardson, J. F. Ritt, R. K. Ritt, E. K. Ritter, P. C. Rosenbloom, Hans Samelson, Arthur Sard, L. J. Savage, R. H. Scanlan, Henry Scheffé, S. A. Schelkunoff, L. I. Schoenfeld, Alberta Schuettler, I. E. Segal, C. E. Shannon, Max Shiffman, J. A. Shohat, P. A. Smith, Fritz Steinhardt, J. J. Stoker, E. G. Straus, M. M. Sullivan, Fred Supnick, Otto Szász, J. D. Tamarkin, J. H. Taylor, J. M. Thomas, E. M. Torrance, H. F. Tuan, A. W. Tucker, J. W. Tukey, Oswald Veblen, R. M. Walter, W. R. Wasow, G. C. Webber, André Weil, Alexander Weinstein, Louis Weisner, C. P. Wells, George Whaples, A. P. Wheeler, W. L. G. Williams, John Williamson, H. P. Wirth, R. S. Wolfe, Jacob Wolfowitz, Oscar Zariski, M. F. Zucker, Antoni Zygmund.

On Friday evening at 8 o'clock Professor K. O. Friedrichs gave an address entitled *Mathematical aspects of the boundary layer theory*. Professor R. G. D. Richardson presided at this session.

On Saturday there were two addresses: at 11 A.M. *The structure of normed abelian rings* by Professor E. R. Lorch, and at 2 P.M. *Modern algebra and the Riemann hypothesis* by Professor André Weil. Pro-

fessor W. T. Martin presided at the first of these sessions, and Vice President Einar Hille at the second.

At 3:15 P.M. Saturday there was a session for papers in Algebra, Probability, Statistics and Applied Mathematics, at which Professor N. H. McCoy presided, and another for papers in Analysis and Geometry at which Professor Nelson Dunford presided.

The Council met at 12:30 P.M. on April 29, 1944, in the Long Room of the Faculty Club.

The Secretary announced the election of the following one hundred and twenty-seven persons to membership in the Society (the address given is that of the member at the time of his application):

Professor Louise Adams, High Point College, High Point, N. C.;  
 Dean Ralph Ellsworth Allison, Northwest Nazarene College, Nampa, Idaho;  
 Professor Hippocrates George Apostle, University of Rochester;  
 Dr. Edward George Baker, American Bureau of Shipping, New York, N. Y.;  
 Mr. Anthony Francis Bartholomay, Brown University;  
 Mr. Chester Edwin Baston, Hillyer Junior College, Hartford, Conn.;  
 Mr. Daniel Moore Bates, Philadelphia, Pa.;  
 Mr. William Edwin Beeman, North Texas State Teachers College, Denton Tex.;  
 Mr. John Bodnar, Junior College of Connecticut, Bridgeport, Conn.;  
 Mr. Claude Levi Bordner, State Teachers College, Kutztown, Pa.;  
 Professor Alger Vernon Boswell, Tennessee Agricultural and Industrial State Teachers College, Nashville, Tenn.;  
 Professor John Gerald Bowker, Middlebury College, Middlebury, Vt.;  
 Professor John Grist Brainerd, Moore School of Electrical Engineering, University of Pennsylvania;  
 Professor Angeline Jane Brandt, Wheaton College, Wheaton, Ill.;  
 Professor Robert H. Breusch, Amherst College;  
 Dr. Walter J. Bruns, Hamilton College;  
 Professor John Harvey Butchart, Grinnell College, Grinnell, Iowa;  
 Miss Minerva Elda Butz, Cedar Crest College, Allentown, Pa.;  
 Dr. Ralph Edward Byrne, Jr., Barber-Colman Company, Rockford, Ill.;  
 Mr. Joseph D. Chapline, Jr., Moore School of Electrical Engineering, University of Pennsylvania;  
 Mr. Eric H. Clamons, University of Minnesota;  
 Professor James P. Cole, Louisiana State University;  
 Captain Clarence Beasley Collier, Jr., United States Military Academy;  
 Sister Maria Loyola Conlan, College of Mount Saint Vincent, New York, N. Y.;  
 Mrs. F. Marion Clarke Connell (Mrs. James R.), University of Southern California;  
 Professor Erben Cook, Jr., University of Connecticut;  
 Mr. Irvin Douglas Cook, College Park, Md.;  
 Miss Nancy Elizabeth Cooley, Fairfax Hall Junior College, Waynesboro, Va.;  
 Mr. V. B. Cooper, South Georgia College, Douglas, Ga.;  
 Professor Forrest Eugene Craver, Dickinson College, Carlisle, Pa.;  
 Professor Don Cude, Southwest Texas State Teachers College, San Marcos, Tex.;  
 Mr. Leland E. Cunningham, Aberdeen, Md.;  
 Mr. John Moffatt Danskin, Jr., U. S. Naval Reserve, Wright Junior College, Chicago, Ill.;

- Dr. Margaret Rae Davis, Greenbrier Junior College, Lewisburg, W. Va.;  
Professor Lester C. Dawson, University of Alaska;  
Dr. Frances Rousmaniere Dewing, Bennington College;  
Sister Agnes Therese Dimond, College of Mount St. Joseph-on-the-Ohio, Mount St. Joseph, Ohio;  
Mr. Harold Irving Ewen, Amherst College;  
Mr. Edward Joseph Farrell, University of San Francisco;  
Mr. David Fisher, Michigan College of Mining and Technology;  
Professor Carroll E. Flanagan, State Teachers College, Superior, Wis.;  
Mr. Frederick Fraser, St. Petersburg Junior College, St. Petersburg, Fla.;  
Mr. Paul Thomas Gilbert, Jr., Utah State Agricultural College;  
Mr. Alfred Oscar Ginkel, University of Rochester;  
Mr. Eugene Van Ness Goetchius, University of Virginia;  
Mr. Adolph W. Goodman, Syracuse University;  
Dr. Fausto G. Gravalos, Goodyear Aircraft Company, Akron, Ohio;  
Mr. Wallace Clayton Griffith, DePauw University;  
Sister Edward Joseph Hackett, St. Mary's College, Holy Cross, Notre Dame, Ind.;  
Mr. Franklin Haimo, Reed College;  
Mr. Leon Albert Henkin, Kellogg Corporation, New York, N. Y.;  
Mr. Alvadore John Hinshaw, Central Union High School and Junior College, El Centro, Calif.;  
Miss Lois Aileen Hostinsky, University of Illinois;  
Reverend Joseph Albert Hratz, St. Ambrose College, Davenport, Iowa;  
Mr. Stanley Parlett Hughart, Princeton University;  
Dr. John Theodore Johnson, Chicago Teachers College;  
Mr. Herbert L. Jones, Hiram College, Hiram, Ohio;  
Mr. Winfield Keck, Muhlenberg College, Allentown, Pa.;  
Mr. David B. Kirk, Haverford College;  
Mr. Kenneth Virgil Knight, American Optical Company, Southbridge, Mass.;  
Mr. John C. Koken, Parks Air College, East St. Louis, Ill.;  
Mr. Yung-Huai Kuo, California Institute of Technology;  
Dr. Paco Axel Lagerstrom, Princeton University;  
Professor John Mark LaRue, Central Michigan College of Education, Mount Pleasant, Mich.;  
Professor Herbert Leonard Lee, University of Tennessee;  
Mr. Kenneth Levenberg, Frankford Arsenal, Philadelphia, Pa.;  
Mr. William Judson LeVeque, University of Colorado;  
Mr. Neil Lockwood, Michigan College of Mining and Technology;  
Mr. Arthur John Lohwater, University of Rochester;  
Miss Eleanor Ann Ludwig, Syracuse University;  
Professor Clyde Truman McCormick, Fort Hays Kansas State College, Hays, Kan.;  
Professor Edith Johnson McKissock, Youngstown College, Youngstown, Ohio;  
Mr. Samuel Stuart McNeary, Drexel Institute of Technology;  
Mr. Clarence Isaac McSwane, University of Illinois;  
Dr. Murray Mannos, University of Delaware;  
Mr. Carl Markow, St. Peter's College, Jersey City, N. J.;  
Professor Milton Marshall, Brigham Young University;  
Mr. Frank Harshman Miller, Kenyon College;  
Mr. William H. Mills, Ballistic Research Laboratory, Aberdeen Proving Ground, Md.;  
Mr. Arthur Charles Moeller, Denison University, Granville, Ohio;

- Mr. William Burton Moye, Georgia Teachers College;  
Father Cronan Mullen, Siena College, Loudonville, N. Y.;  
Mr. Allen Charles Munster, University of Pennsylvania;  
Dr. Václav Myslivec, Czechoslovak Economic Service, New York, N. Y.;  
Miss Elizabeth Ann Oliphant, Texas College of Arts and Industries, Kingsville,  
Tex.;
- Professor James Enoch Parker, Knoxville College, Knoxville, Tenn.;  
Professor Archie Edgar Patterson, School of Forestry, University of Georgia;  
Professor Charles Roberts Pettis, Ohio State University;  
Mr. William Augustus Pierce, University of Vermont;  
Professor Raymond J. Pitts, Fort Valley State College, Fort Valley, Ga.;  
Miss Helen Susanna Pollock, State University of Iowa;  
Mr. David Pomeroy, Oregon State College;  
Mr. Gordon Raisbeck, Stanford University;  
Mr. Meyer Morris Resnikoff, Carleton College, Northfield, Minn.;  
Mr. Charles Barton Reynolds, Federal Communications Commission, New York,  
N. Y.;
- Mr. Robert Bruce Rice, Ohio State University;  
Ensign Robert Errol Roberson, Naval Research Laboratory, Washington, D. C.;  
Miss Helen Murray Roberts, University of Connecticut;  
Mr. Gene Fuerst Rose, Glassport, Pa.;  
Professor Francis Edward Rothchild, Arkansas Agricultural and Mechanical College,  
Monticello, Ark.;
- Miss Margaret M. Ryan, Syracuse University;  
Mr. Herbert Ellis Salzer, Mathematical Tables Project, National Bureau of Standards,  
New York, N. Y.;
- Professor Charles Henry Sampson, Bates College;  
Mr. George R. Schaefer, U. S. Naval Observatory, Washington, D. C.;  
Sister M. Rosalin Schaeffer, Ursuline College, Louisville, Ky.;  
Mr. Lowell I. Schoenfeld, Naval Air Experimental Station, Navy Yard, Philadelphia,  
Pa.;
- Dr. Hans Wilhelm Eduard Schwerdtfeger, University of Adelaide, Adelaide, South  
Australia;
- Lieutenant Commander Henry St. Clair Sharp, United States Coast Guard Academy;  
Mr. William Lloyd Shepherd, Southwestern College, Winfield, Kan.;  
Professor Heinz Simon, Southern Union College, Wadley, Ala.;  
Mr. Frank Brooke Sloss, Westminster College, Fulton, Mo.;  
Mr. Maurice Howard Slud, Brown University;  
Professor Dudley Eugene South, University of Kentucky;  
Miss Elisabeth Stanfield, Bennett College, Greensboro, N. C.;  
Mr. Irwin Stoner, University of North Carolina;  
Professor Earl Garrod Swafford, Fort Hays Kansas State College, Hays, Kan.;  
Mr. John William Swank, Los Angeles, Calif.;  
Dr. Robert Catesby Taliaferro, Hamilton College;  
Mr. Francisco Vazquez Pueyo, Polytechnic Institute of Puerto Rico;  
Mr. Anthony Emilio Ventriglia, Cornell University;  
Professor George Frank Waites, Centenary College of Louisiana;  
Professor Eleanor Boyd Walters, Delta State Teachers College, Cleveland, Miss.;  
Mr. Dana Wallis Whitman, Burlington, Vt.;  
Dr. Yung-Chow Wong, University of Pennsylvania;  
Mr. Frederick Lewis Wood, State Teachers College, Bridgewater, Mass.;

Mrs. Mary Hart Zink (Mrs. F. J.), Elmhurst College, Elmhurst, Ill.;  
 Mrs. Miriam F. Zucker (Mrs. S. M.), American Mathematical Society, New York,  
 N. Y.

It was reported that the following had been elected as nominees on the Institutional Memberships of the Institutions indicated:

Brown University: Messrs. Joaquín Basilio Díaz and George Herman Handelman.  
 Bryn Mawr College: Miss Marie Anna Wurster.  
 University of California: Miss Louise Hoy Chin, Messrs. E. Allen Davis, Joseph Lawson Hodges, and Siegfried Friedrich Neustadter.  
 University of California at Los Angeles: Mr. Gordon Klinzman Overholtzer, Mrs. Zivia Wurtele.  
 University of Chicago: Messrs. Charles F. Brumfiel, Marvin Maynard Lavin, and Charles A. Nichols.  
 University of Cincinnati: Mr. John Sunapee Stubbe.  
 Cornell University: Messrs. Robert Lewis Beinert, Charles Hatfield, Jr., and Edward Joseph Scott.  
 Duke University: Mr. Robert Arthur Clark.  
 Harvard University: Messrs. E. J. Akutowicz, Philip Davis, L. Fine, Daniel Gorenstein, A. R. Harvey, I. I. Hirschman, Robert Heywood Hoskins, G. Mostow, S. B. Sommerville, James Wolfe, and Joseph Abraham Zilber.  
 University of Illinois: Miss Mildred Jeannette Brannon, Mr. H. Herbert Fox, Misses Helen Louise Friend, Helen P. Hoffman, and Elaine Vivian Nantkes, Mr. Richard George Stoneham, Professor Earl Reeves Wasserman.  
 Iowa State College: Mr. Frank Edward Bortle.  
 Johns Hopkins University: Messrs. Thomas Birdsall Andrews, Jr., Charles Vale Bitterli and Julius Vogel.  
 Massachusetts Institute of Technology: Messrs. Lawrence Russell Norwood, Walter Pitts, and George Neal Raney.  
 University of Michigan: Messrs. Pratap Chand and Manuel O. Hizon, Miss Frances Van Every Morfoot.  
 Northwestern University: Mr. William R. Allen, Miss Alice Christianson, Messrs. B. Kent Dickerson and Martinus Esser, Miss Evelyn Frank.  
 University of Notre Dame: Rev. Ferdinand L. Brown.  
 Pennsylvania State College: Mr. John Rankin Kinney.  
 Stanford University: Miss Kathryn Anne Morgan.  
 Syracuse University: Professor Howard Whitley Eves.  
 Texas Technological College: Miss Virginia Elizabeth Bowman.  
 University of Virginia: Messrs. Raymond Alfred Lytle and Russell Lowell Wine.  
 University of Washington: Miss Phyllis Cady Johnson, Mr. Max Carl Walske.  
 Wesleyan University: Messrs. Adolph Grünbaum and Raymond de Shelly.  
 Western and Southern Life Insurance Company: Mr. William S. Marcaccio.  
 Williams College: Mr. Edwin Foote Gillette.  
 University of Wisconsin: Messrs. Louis Harold Kanter, John Thomas Moore, Joseph Rosenthal, Raphael Darrel Wagner, and Robert Livingston Young.  
 Yale University: Mr. Walter John Klimczak.

It was also reported that Immaculata College, Immaculata, Pennsylvania, had been elected to institutional contributing membership in the Society.

The following appointments by President M. H. Stone were reported: as a committee to study the present method of arranging scientific programs, Professors Saunders MacLane (Chairman), W. T. Martin, C. V. Newsom, Gabor Szegö, and Oswald Veblen; as a Committee on Nomination of Officers and Members of the Council for 1945, Professors Einar Hille (Chairman), G. A. Hedlund, E. P. Lane, C. C. MacDuffee, and Hassler Whitney; as a Committee on Arrangements for the 1944 Summer Meeting at Wellesley College, Professor Marion E. Stark (Chairman), Dr. Katherine E. Hazard, Professors T. R. Hollcroft, B. W. Jones, and Helen G. Russell; as auditors of the Society's accounts for 1944, Professors T. F. Cope and A. E. Meder, Jr.; as representative of the Society at the inauguration of Clark George Kuebler as seventh President of Ripon College (Ripon, Wisconsin) on December 7, 1943, Professor R. E. Langer; as representative of the Society at the inauguration of Russell David Cole as President of Cornell College (Mount Vernon, Iowa) on April 25, 1944, Professor Roscoe Woods; as representative of the Society at the inauguration of the Very Reverend Vincent J. Flynn as President of The College of St. Thomas (St. Paul, Minnesota) on April 27, 1944, Professor R. W. Brink.

The Secretary reported that the following had been chosen as the voting representatives of editorial committees on the Council for the year 1944: Bulletin—Dean Tomlinson Fort; Transactions—Professor A. A. Albert; Colloquium Publications—Professor A. B. Coble; American Journal of Mathematics—Professor G. D. Birkhoff; Mathematical Reviews—Professor O. E. Neugebauer.

The Secretary reported that Professor John von Neumann had accepted the invitation to deliver the Gibbs Lecture at the Annual meeting of 1944; the title of the Lecture will be *The ergodic theorem and statistical mechanics*.

It was reported that the biennial List of Members, usually published as a supplement to the September Bulletin, will be published in November in 1944.

The Secretary reported the receipt of a letter from the London Mathematical Society, expressing appreciation of the fifteen microfilm reading machines, donated by our Society, which have now been distributed to scientific groups in Great Britain.

The Council adopted the following resolution on the death of Professor Thomas Scott Fiske:

The death on January 10, 1944, of Professor Thomas Scott Fiske, venerable founder of the American Mathematical Society, brought deep sadness to the country's mathematicians.

To the members of the Society, the story of its first years is an absorbing one. In 1888, Professor Fiske, then a young man of twenty-three, saw that the time was ripe for the organization of the mathematicians of America. Through his efforts there was established the New York Mathematical Society which, in the space of three years, grew into a national organization. Fiske held office in the Society as Secretary from 1888 to 1895, as Treasurer from 1898 to 1901 and, finally, as President, 1903 to 1904. In addition, he served for long periods on the editorial staffs of the *Bulletin and Transactions*.

Fiske's ability as an organizer also found scope in the Department of Mathematics of Columbia University, of which he was a member for fifty years. Himself a scholar of genuine depth, he devoted his energies to the creation of a center of mathematical research at Columbia. He took a sincere interest in the researches of his colleagues and found particular pleasure in encouraging the scientific efforts of the young men serving under him.

Fiske was a striking personality. Distinguished in presence, cordial and frank in nature, he enjoyed the deep regard of his associates. He has left his mark on a period of mathematical history whose color will deepen as the years advance.

On recommendation of the Committee on Places of Meetings, the 1944 Annual Meeting was scheduled for Chicago, Illinois, on November 24–25. The Council also scheduled a far western meeting on November 25 at the University of California at Los Angeles.

It was reported that Professor Will Feller had been invited to deliver an hour address at the 1944 Annual Meeting.

Professors F. J. Murray and Morgan Ward were reappointed as representatives of the Society on the Editorial Board of the *Duke Mathematical Journal*.

The Council accepted the resignation of Professor J. W. T. Youngs as Acting Associate Secretary.

The Council voted to recommend to the Board of Trustees that the *Transactions of the Society* be copyrighted.

The Secretary reported for the War Policy Committee as follows: (1) Problems in connection with mathematicians and Selective Service have occupied the attention of members of the Committee and the Secretary's office has attempted to keep chairmen of departments of mathematics informed of changes in procedure; (2) Efforts are being made to secure funds so that the Society and Association may continue to support the Office of Scientific Personnel in Washington, the Director of which has been useful in representing the mathematicians during these critical times; (3) the Committee on Available Teachers of Collegiate Mathematics is continuing to function as an aid to department chairmen in securing teachers for the service programs; (4) the Subcommittee on War Training Programs has submitted detailed reports on the mathematical aspects

of the Army Specialized Training Program and of the Navy College Training Program. The Subcommittee is also studying the work of the Armed Forces Institute.

On recommendation of the committee appointed to consider the possibility of changing the term of office of the President of the Society, the Council voted that no change be made at this time.

Titles and cross references to the abstracts of papers read follow below. Papers whose abstract numbers are followed by the letter *t* were read by title. Papers numbered 1 to 6 were read in the section for Algebra, Probability, Statistics, and Applied Mathematics; papers 7 to 12 in the section for Algebra and Geometry; papers 13 to 28 were read by title. Paper 1 was read by Professor Tukey; paper 9 by Professor Cameron. Dr. Kober was introduced by Professor Einar Hille.

1. Henry Scheffé and J. W. Tukey: *Contributions to the theory of non-parametric estimation*. (Abstract 50-5-164.)

2. John Williamson: *Hadamard's determinant theorem and the sum of four squares*. (Abstract 50-5-119.)

3. Garrett Birkhoff: *Subdirect products in universal algebra*. (Abstract 50-5-106.)

4. J. A. Shohat: *Series expansions for the periodic solution of Van der Pol's equation and its frequency for all values of the parameter*. (Abstract 50-5-156.)

5. P. R. Halmos: *Random alms*. (Abstract 50-5-163.)

6. S. P. Avann: *Relations between join-irreducibles and meet-irreducibles in a modular lattice*. I. (Abstract 50-5-104.)

7. L. H. Loomis: *Abstract congruence and the uniqueness of Haar measure*. (Abstract 50-5-141.)

8. S. S. Chern: *Laplace transforms of a class of higher dimensional varieties in a projective space of  $n$  dimensions*. (Abstract 50-5-159.)

9. R. H. Cameron and W. T. Martin: *Transformations of Wiener integrals under a general class of linear transformations*. (Abstract 50-5-130.)

10. Otto Szász: *On uniform convergence of trigonometric series*. (Abstract 50-5-149.)

11. L. I. Schoenfeld: *A transformation formula in the theory of partitions*. (Abstract 50-5-147.)

12. M. M. Day: *On symmetric closed convex curves*. (Abstract 50-5-132.)

13. R. P. Agnew: *Summability of subsequences*. (Abstract 50-5-120-*t*.)



14. Stefan Bergman: *Certain classes of analytic functions of two real variables and their properties.* (Abstract 50-5-123-t.)
15. Stefan Bergman: *The determination of some properties of a function satisfying a partial differential equation from its series development.* (Abstract 50-5-124-t.)
16. Augusto Bobonis: *A sufficiency theorem for differential systems.* (Abstract 50-5-126-t.)
17. H. D. Brunk: *Theorems of composition for Dirichlet series.* Preliminary report. (Abstract 50-5-128-t.)
18. C. W. Churchman and Benjamin Epstein: *Estimates of error in parallel experiments.* (Abstract 50-5-162-t.)
19. W. B. Fite: *The degree of a linear homogeneous group.* (Abstract 50-5-109-t.)
20. Michael Goldberg: *A three-space analog of a plane Kempe linkage.* (Abstract 50-3-81-t.)
21. S. B. Jackson: *Vertices of plane curves.* (Abstract 50-5-160-t.)
22. Edward Kasner and John DeCicco: *Isothermal families in general curvilinear coordinates, and loxodromes.* (Abstract 50-7-191-t.)
23. Herman Kober: *Approximation by integral functions in the complex domain.* (Abstract 50-5-140-t.)
24. A. N. Lowan and H. E. Salzer: *Coefficients for complex interpolation within a square grid.* (Abstract 50-5-142-t.)
25. G. W. Mackey: *On infinite dimensional linear spaces.* (Abstract 50-5-143-t.)
26. A. M. Peiser: *On the average sum of the real roots of a random algebraic equation.* (Abstract 50-5-144-t.)
27. G. T. Whyburn: *Interior mappings into the circle.* (Abstract 50-7-197-t.)
28. Oscar Zariski: *The theorem of Bertini concerning the variable singular points of a linear system of varieties.* (Abstract 50-7-194-t.)

J. R. KLINE,  
Secretary