THE FEBRUARY MEETING IN NEW YORK

The four hundred twenty-third meeting of the American Mathematical Society was held at Columbia University on Saturday, February 22, 1947. The attendance was approximately two hundred including the following one hundred seventy-six members of the Society:

Milton Abramowitz, C. R. Adams, Leonidas Alaoglu, E. B. Allen, Warren Ambrose, T. W. Anderson, R. G. Archibald, R. F. Arens, L. A. Aroian, R. N. Ascher, W. A. Asprey, P. T. Bateman, M. F. Becker, Stefan Bergman, Arthur Bernstein, Lipman Bers, J. H. Bigelow, Gertrude Blanch, J. H. Blau, R. P. Boas, H. W. Bode, G. L. Bolton, W. H. Bradford, A. B. Brown, Bailey Brown, Hobart Bushey, J. H. Bushey, H. H. Campaigne, J. D. Campbell, Herman Chernoff, M. D. Clement, I. S. Cohen, J. E. Crawford, Franco Croci, H. M. Dadourian, John DeCicco, J. B. Díaz, S. P. Diliberto, J. L. Doob, C. H. Dowker, Y. N. Dowker, T. L. Downs, Arnold Dresden, Jacques Dutka, Bernard Epstein, Paul Erdös, Luis Esteban-Carrasco, W. H. Fagerstrom, J. M. Feld, A. D. Fialkow, Emanuel Fischer, D. A. Flanders, R. M. Foster, F. H. Fowler, G. A. Foyle, Gerald Freilich, L. J. Gårding, Abe Gelbart, B. P. Gill, Joseph Gillis, A. W. Goodman, H. J. Greenberg, E. J. Gumbel, F. C. Hall, Philip Hartman, K. E. Hazard, C. M. Hebbert, Alex Heller, A. D. Hestenes, Edwin Hewitt, Einar Hille, P. G. Hoel, A. J. Hoffman, T. R. Hollcroft, E. M. Hull, L. C. Hutchinson, Robert Jastrow, A. W. Jones, Bjarni Jónsson, Aida Kalish, Samuel Kaplan, Edward Kasner, M. E. Kellar, L. S. Kennison, D. E. Kibbey, H. S. Kieval, J. R. Kline, Morris Kline, E. R. Kolchin, B. O. Koopman, M. Z. Krzywoblocki, Jack Laderman, Joseph Lehner, R. A. Leibler, Benjamin Lepson, R. J. Levit, J. H. Lewis, Marie Litzinger, Charles Loewner, E. R. Lorch, Lee Lorch, A. N. Lowan, N. H. McCoy, Janet McDonald, A. W. McMillan, Brockway McMillan, L. A. MacColl, H. F. MacNeish, W. T. Martin, Imanuel Marx, F. I. Mautner, A. N. Milgram, Don Mittleman, G. F. Morecroft, I. R. Moses, Z. I. Mosesson, D. S. Nathan, C. A. Nelson, A. V. Newton, P. B. Norman, C. O. Oakley, L. G. Peck, A. M. Peiser, Anna Pell-Wheeler, R. S. Phillips, Everett Pitcher, E. L. Post, Walter Prenowitz, M. H. Protter, G. N. Raney, H. W. Reddick, R. G. D. Richardson, J. F. Ritt, H. E. Robbins, J. H. Roberts, H. E. Salzer, Pierre Samuel, Arthur Sard, A. T. Schafer, R. D. Schafer, I. E. Segal, C. E. Shannon, R. H. Shaw, Max Shiffman, D. N. Silver, David Singer, James Singer, P. A. Smith, Fritz Steinhardt, E. G. Straus, L. M. Straus, M. M. Sullivan, Fred Supnick, J. H. Taylor, Feodor Theilheimer, W. R. Transue, C. A. Truesdell, J. W. Tukey, Cengiz Uluçay, Philon Vassiliou, A. E. Ventriglia, A. D. Wallace, R. M. Walter, W. G. Warnock, Alan Wayne, Louis Weisner, F. P. Welch, G. W. Whitehead, Albert Wilansky, J. E. Wilkins, John Williamson, Jacob Wolfowitz, Bertram Yood, H. J. Zimmerberg, Leo Zippin, Antoni Zygmund.

The meeting Saturday morning was divided into two sections, one for papers in Analysis, Geometry and Topology, at which Professor Anna Pell-Wheeler presided, and one for papers in Algebra, Applied Mathematics, and Statistics, at which Professors W. T. Martin and E. R. Lorch presided.

The afternoon session, at which President Einar Hille presided, consisted of a business meeting and an invited address.

At the business meeting, Secretary J. R. Kline presented the following two changes in by-laws of the Society which had been voted by the Council and approved by the Board of Trustees.

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.

On motion, this change in the by-laws was approved by the members of the Society.

ARTICLE VII. DUES

Section 2. The annual dues of persons elected by the Council to ordinary membership under the provisions of Article VI, Section 5, shall be ten dollars, with the following exceptions: (1) during the first two years of membership, the annual dues shall be six dollars; during the third and fourth years of membership, the annual dues shall be eight dollars; a person shall be considered to have completed his first year of membership on January 1 following his election; (2) the amount of dues may be altered by reciprocity agreements with other societies; (3) the Council may make special rulings in exceptional cases, with the approval of the Board of Trustees. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election.

Section 3. Five dollars and fifty cents of the annual dues of those members who receive the Bulletin under the provisions of Article VI shall be allocated in payment therefore.

Section 7. Persons elected to ordinary membership as nominees of sustaining members or institutional contributing members under the provisions of Article VI, Sections 3–4, shall not be required to pay an initiation fee. They shall not be required to pay dues, so long as it is agreed that they are designated by the sustaining member or institutional contributing member under these provisions. If a nominee of a sustaining member or an institutional contributing member later becomes a dues-paying member, he shall pay dues at the appropriate rate per year (as provided in Section 2 of this Article) for the remainder (if any) of his first four years of membership, and ten dollars a year thereafter.

On motion, this change in the by-laws was approved by the mem-

bers of the Society.

Professor N. H. McCoy of Smith College gave an address entitled *Subdirect sums of rings*.

Titles and cross references to the papers read follow below. Papers whose abstract numbers are followed by the letter "*t*" were read by title. Papers numbered 1–6 were presented in the section for Analysis, Geometry, and Topology, papers 7–12 in the section for Algebra, Applied Mathematics, and Statistics, papers 13–30 were presented by title. Paper 1 was read by Mr. Bradford, paper 3 by Professor Kasner, paper 8 by Professor Robbins, and paper 11 by Professor Díaz. Dr. Barsotti was introduced by Professor A. A. Albert, Professor Chang by Professor Oscar Zariski, Mr. Gerst by Professor J. F. Ritt, and Professor Samuelson by Dr. Frederick Mosteller.

1. R. N. Haskell and W. H. Bradford: *Sub-biharmonic functions.* Preliminary report. (Abstract 53-3-130.)

2. John DeCicco: *New proofs of the theorems of Kasner concerning the infinitesimal contact transformations of mechanics.* (Abstract 53-3-151.)

3. Edward Kasner and John DeCicco: *New theorems in the polar theory of a general algebraic curve.* (Abstract 53-3-154.)

4. Everett Pitcher: *Čech homology invariants of continuous maps.* (Abstract 53-3-159.)

5. Edwin Hewitt: *A characterization of rings of continuous real-valued functions.* (Abstract 53-5-171.)

6. J. H. Roberts: *A problem in dimension theory.* (Abstract 53-3-160.)

7. R. J. Levit: *The non-existence of a certain type of odd perfect number.* (Abstract 53-3-117.)

8. P. L. Hsu and H. E. Robbins: *Complete convergence and the law of large numbers.* (Abstract 53-3-156.)

9. Fred Supnick: *Cooperative phenomena. II. Structure of the two-dimensional Ising model.* (Abstract 53-3-149.)

10. H. J. Greenberg: *The determination of upper and lower bounds for the solution of the Dirichlet problem.* (Abstract 53-3-144.)

11. J. B. Díaz and H. J. Greenberg: *Upper and lower bounds for the solution of the general biharmonic boundary value problem.* (Abstract 53-3-126.)

12. M. Z. Krzywoblocki: *On certain cases of simple solutions of flow equations in compressible fluid with particular conditions.* (Abstract 53-3-145.)

13. Iacobo Barsotti: *Structure theorems for algebraic algebras without a finite basis.* (Abstract 53-3-107-t.)

14. Iacobo Barsotti: *Valuations in division algebras without a finite basis.* (Abstract 53-3-108-*t*.)

15. S. C. Chang: *Contributions to projective theory of singular points of space curves.* (Abstract 53-1-81-*t*.)

16. V. F. Cowling: *Some results for Dirichlet series.* (Abstract 53-3-125-*t*.)

17. J. J. Gergen and F. G. Dressel: *A minimal problem for harmonic functions.* (Abstract 53-3-128-*t*.)

18. Irving Gerst: *Meromorphic functions with simultaneous multiplication and addition theorems.* (Abstract 53-3-129-*t*.)

19. Edward Kasner and John DeCicco: *A partial differential equation of fourth order connected with rational functions of a complex variable.* (Abstract 53-1-83-*t*.)

20. Edward Kasner and John DeCicco: *Harmonic transformations and velocity systems.* (Abstract 53-3-153-*t*.)

21. L. B. Robinson: *Generation of an infinite system of functions with the unit circle as singular line from the Garvin series.* (Abstract 53-3-132-*t*.)

22. H. E. Salzer: *The approximation of numbers as sums of reciprocals.* (Abstract 53-3-133-*t*.)

23. H. E. Salzer: *Table of coefficients for interpolating in functions of two variables.* (Abstract 53-3-146-*t*.)

24. P. A. Samuelson: *A generalized Newton iteration.* (Abstract 53-3-147-*t*.)

25. P. A. Samuelson: *Generalization of the Laplace transform for any operator.* (Abstract 53-3-148-*t*.)

26. I. E. Segal: *Postulates for general quantum mechanics.* (Abstract 53-3-134-*t*.)

27. E. G. Straus: *On the existence of square-free numbers of the form ax^2+b.* (Abstract 53-3-118-*t*.)

28. D. V. Widder: *Inversion formulas for convolution transforms.* (Abstract 53-5-239-*t*.)

29. Bertram Yood: *On ideals in operator rings over Banach spaces.* Preliminary report. (Abstract 53-3-138-*t*.)

30. H. J. Zimmerberg: *Definite integral systems.* (Abstract 53-3-140-*t*.)

T. R. Hollcroft,
Associate Secretary