THE FEBRUARY MEETING IN NEW YORK

The two hundred seventy-seventh meeting of the American Mathematical Society was held at Columbia University, on Saturday, February 22, 1930, extending through the usual morning and afternoon sessions. The attendance included the following sixty-nine members:

A. A. Albert, L. B. Andrews, R. G. Archibald, H. E. Arnold, F. W. Beal, Benton, B. H. Camp, Chambers, Cheney, L. W. Cohen, Cooley, C. C. Craig, Demos, Doermann, Donahue, Dresden, Arne Fisher, Fiske, Fite, D. A. Flanders, Flexner, R. M. Foster, C. C. Grove, Hansell, Robert Henderson, L. S. Hill, Himwich, Hofmann, Huber, Huntington, M. I. Johnson, Keffer, Kline, Knebelman, Knobelauch, Koopman, Kramer, Lefschetz, MacColl, S. P. Mead, F. H. Miller, Molina, T. W. Moore, F. H. Murray, C. A. Nelson, Oppenheim, Ore, Parsons, Post, Reddick, Ritt, J. H. Roberts, Robertson, Roos, Ruger, H. M. Schlauch, Seely, Serghiesco, Simons, Smail, P. A. Smith, T. Y. Thomas, Wedderburn, Weida, Weisner, W. A. Wilson, Winters, Margaret M. Young, Zobel.

At the meeting of the Council the following persons were elected to membership in the Society:

Professor Harold Lish Black, Westminster College;
Professor Charles Theodore Bumer, Ohio State University;
Mr. Robert Horton Cameron, Cornell University;
Professor Lewis Townsend Cook, St. Lawrence University;
Mr. John Johnson Corliss, University of Michigan;
Mr. William Larkin Duren, Jr., University of Chicago;
Mr. Edward J. Finan, Ohio State University;
Mr. Dan Hall, Agricultural and Mechanical College of Texas;
Professor Cincinnatus Decatur Killebrew, Alabama Polytechnic Institute;
Professor Herbert Albert Meyer, Hanover College;
Professor Walter McKinley Miller, Marquette University;
Dr. Paul Smith Olmstead, Bell Telephone Laboratories;
Mr. Herbert Dellmont Owens, University of Minnesota;
Professor James V. Uspensky, Stanford University;
Professor William Wilson Weber, Lander College;
Mr. John Henry Constantine Whitehead, Princeton University;
Professor William Miller Wible, Intermountain Union College;
Mr. William Henry Yates, civil engineer, New York City.

Eleven applications for regular membership were received and one nomination of a sustaining member.

The following appointments by the President were an-

nounced: To represent the Society at the semi-centennial cele-
bration of the University of Southern California on June 4,
1930, Professor E. R. Hedrick; to represent the Society on the
Joint Committee of Engineering Statistics, Professor E. V.
Huntington; as chairman of the subcommittee on mathematics
of the National Research Council Science Advisory Committee
of the Chicago World's Fair Centennial Celebration in 1933,
Professor Huntington; as a committee to consider the estab-
lishment of a journal of applied mathematics, Dr. T. C. Fry,
chairman, Mr. P. L. Alger, Professor Tomlinson Fort, Mr.
Charles Le G. Fortescue, Professors S. Timoshenko, Warren
Weaver, and Norbert Wiener.

On the recommendation of the Committee on the Visiting
Lecturership, Professor E. Bompiani, of the University of
Rome, was appointed as the Society's visiting lecturer for the
year 1930.

At a business session of the Society held before the begin-
ning of the regular afternoon session, the following amendments
to the By-Laws were adopted, as recommended by the Council:
Article VI, Section 2, to read "The annual dues of persons
elected by the Council to ordinary membership under the pro-
visions of Article V, Section 4, shall be eight dollars, with the
following exceptions: (1) during the first three years of member-
ship, the annual dues shall be six dollars; a person shall be con-
sidered 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." Article VI, Section 4, to read "Persons
elected to ordinary membership as nominees of sustaining
members, under the provisions of Article V, Section 3, shall
not be required to pay an initiation fee. They shall not be re-
quired to pay dues so long as it is agreed that they are desig-
nated by the sustaining member under these provisions. If a
nominee of a sustaining member later becomes a dues-paying
member, he shall pay dues at the rate of six dollars a year for
the remainder (if any) of his first three years of membership,
and eight dollars a year thereafter."

At the request of the Program Committee, Mr. E. C. Molina, of the American Telephone and Telegraph Company, delivered, at the afternoon session, an address entitled *The theory of probability; some comments on Laplace's Théorie Analytique.* By the courtesy of the American Telephone and Telegraph Company, this address was printed in advance of its delivery, and copies were distributed at the meeting.

Vice-President Lefschetz presided at the morning session, Mr. Robert Henderson during the business meeting, and Professor Huntington at the regular afternoon session.

Titles and cross-references* to the abstracts of the papers read at this session follow below. The papers whose abstract numbers are followed by the letter *t* were read by title. Mr. Borofsky was introduced by Professor Ritt, and Mr. Smiley by Professor Evans.

1. *Notes on the Jonquière quartic*, by Professor H. E. Arnold. (Abstract No. 36–3–171.)

2. *On the geometry of the second derivative of a polygenic function*, by Professor J. E. Donahue. (Abstract No. 36–3–172.)

3. *Plane transformations preserving centers of gravity*, by Dr. Lulu Hofmann. (Abstract No. 36–3–173.)

4. *A necessary and sufficient condition for the non-equivalence of any two rational generalized quaternion division algebras*, by Dr. A. A. Albert. (Abstract No. 36–3–174.)

5. *On hypergeometric functions of several variables*, by Professor Oystein Ore. (Abstract No. 36–3–175.)

6. *Linear homogeneous differential equations with Dirichlet series as coefficients*, by Mr. Samuel Borofsky. (Abstract No. 36–3–176.)

7. *A point set characterization of 2-dimensional closed manifolds*, by Dr. J. H. Roberts (National Research Fellow). (Abstract No. 36–3–177.)

8. *On the region covered by a certain polynomial*, by Professor J. E. Donahue. (Abstract No. 36–3–178.)

9. *Irreducible non-planar graphs*, by Professors Orrin Frink and P. A. Smith. (Abstract No. 36–3–179.)

10. *A construction of all non-commutative rational division*

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* See this Bulletin, vol. 36, p. 6, footnote.

algebras of order eight, by Dr. A. A. Albert. (Abstract No. 36–3–180–*t.*)

11. *The first variation of a functional*, by Professor G. C. Evans and Mr. W. G. Smiley, Jr. (Abstract No. 36–3–181–*t.*)

12. *Geometries in which straight lines are shortest*, by Dr. Lincoln LaPaz. (Abstract No. 36–3–182–*t.*)

13. *A continuum every subcontinuum of which separates the plane*, by Professor G. T. Whyburn. (Abstract No. 36–3–183–*t.*)

14. *Completely partitionable connected sets*, by Professor G. T. Whyburn. (Abstract No. 36–3–184–*t.*)

15. *On non-separated cuttings of connected point sets*, by Professor G. T. Whyburn. (Abstract No. 36–3–185–*t.*)

16. *Concerning certain continuous curves in the plane and connected and connected im kleinen point sets in general*, by Professor G. T. Whyburn. (Abstract No. 36–3–186–*t.*)

17. *A normal form for maps*, by Mr. Hassler Whitney. (Abstract No. 36–3–187–*t.*)

18. *A necessary and sufficient condition for convergence of a sequence of Lagrange polynomials*, by Professor George Rutledge. (Abstract No. 36–3–188–*t.*)

19. *On certain types of surfaces in 3-dimensional euclidean space*, by Dr. T. C. Benton. (Abstract No. 36–3–189–*t.*)

20. *Involutorial transformations of order N with an $(N-1)$-fold line*, by Mr. L. A. Dye. (Abstract No. 36–3–190–*t.*)

21. *Construction of division algebras*, by Professor L. E. Dickson. (Abstract No. 36–3–191–*t.*)

22. *On the overconvergence of sequences of polynomials of best approximation*, by Professor J. L. Walsh. (Abstract No. 36–3–192–*t.*)

23. *The third characteristic property of the derivative of a polygenic function*, by Professor Edward Kasner. (Abstract No. 36–3–193–*t.*)

24. *Rotational symmetry in the characteristic functions of the Schrödinger wave equation*, by Dr. T. H. Gronwall. (Abstract No. 36–3–194–*t.*)

ARNOLD DRESDEN,
Associate Secretary