

THE APRIL MEETING IN CHICAGO

The three hundred ninety-sixth meeting of the American Mathematical Society was held at the Museum of Science and Industry, Chicago, Illinois, on Friday and Saturday, April 23-24, 1943. The attendance was about one hundred fifty, including the following one hundred and nineteen members of the Society:

Leon Alaoglu, A. A. Albert, B. H. Arnold, Emil Artin, W. L. Ayres, Reinhold Baer, R. H. Bardell, J. C. Bell, C. A. Bennett, S. F. Bibb, W. A. Blankinship, G. A. Bliss, L. M. Blumenthal, D. G. Bourgin, E. L. Buell, H. E. Burns, Herbert Busemann, L. E. Bush, C. C. Camp, W. B. Caton, E. W. Chittenden, R. F. Clippinger, H. B. Curtis, J. Edgar Davis, M. M. Day, John DeCicco, M. W. Dehn, J. M. Dobbie, D. M. Dribin, Samuel Eilenberg, H. S. Everett, L. R. Ford, R. H. Fox, J. H. Giese, J. W. Givens, Michael Golomb, G. D. Gore, Cornelius Gouwens, L. M. Graves, L. W. Griffiths, V. G. Grove, P. R. Halmos, R. W. Hamming, M. L. Hartung, G. E. Hay, C. T. Hazard, M. H. Heins, E. D. Hellinger, Edward Helly, M. R. Hestenes, Carl Holtom, A. S. Householder, H. K. Hughes, H. D. Huskey, G. K. Kalisch, Wilfred Kaplan, William Karush, W. C. Krathwohl, E. P. Lane, R. E. Lane, R. E. Langer, Richard Lence, A. L. Lewis, A. O. Lindstrum, A. T. Lonseth, Eugene Lukacs, Janet MacDonald, G. W. Mackey, Morris Marden, H. J. Miser, C. W. Moran, Ivan Niven, P. B. Norman, J. I. Northam, C. D. Olds, Isaac Opatowski, M. E. Patno, G. B. Price, Tibor Radó, R. B. Rasmusen, Maxwell Reade, W. T. Reid, Haim Reingold, A. E. Ross, Arthur Saastad, R. G. Sanger, Peter Scherk, O. F. G. Schilling, K. C. Schraut, G. E. Schweigert, C. E. Sealander, M. E. Shanks, A. H. Smith, E. R. Smith, W. S. Snyder, Abraham Spitzbart, R. C. Stephens, A. H. Stone, D. M. Stone, E. B. Stouffer, R. L. Swain, H. P. Thielman, C. J. Thorne, M. K. Toft, S. M. Ulam, J. I. Vass, H. S. Wall, J. V. Wehausen, N. W. Wells, M. E. Wescott, M. D. Wetzel, G. W. Whitehead, L. R. Wilcox, K. P. Williams, L. A. Wolf, R. S. Wolfe, Y. K. Wong, J. W. T. Youngs, Daniel Zelinsky.

Sessions for the reading of contributed papers were held on Friday morning with Professor L. M. Blumenthal presiding, Friday afternoon with Professor Reinhold Baer presiding, and Saturday morning with Vice President L. M. Graves and Professor G. A. Bliss presiding. On Friday afternoon prior to the session for contributed papers, Professor Emil Artin of Indiana University gave an invited address on *The axiomatic treatment of number theory and class field theory*. Professor A. A. Albert presided at this lecture.

All sessions were held in the West lecture hall of the Museum of Science and Industry. At the Saturday morning session Professor G. B. Price read a resolution of appreciation to the Museum officials for providing the Society with a place of meeting.

The Council met on Friday, April 23, at 8 P.M. in the Windermere Hotel.

The acting secretary, Professor W. L. Ayres, announced the elec-

tion of the following nine persons to membership in the Society:

Professor Charles Burton Barker, University of New Mexico;
Mr. William Joseph Barr, Naval Research Laboratory, Washington, D. C.;
Mr. Charles Alexander Cole, Jr., U. S. Marine Corps, Naval Research Laboratory,
Washington, D. C.;
Mr. Albert Moore Freeman, Providence, R. I.;
Mr. Richard Delph Geckler, Standard Oil Company, Whiting, Ind.;
Dr. Harry Douglas Huskey, Ohio State University;
Mr. Charles Whaley Pflaum, University of Pennsylvania;
Mr. Tracy Whittelsey Simpson, Marchant Calculating Machine Company, Oakland,
Calif.;
Mr. Charles Tyrrell West, Lieutenant (j.g.), U. S. Naval Reserve, Briggs Manufac-
turing Company, Detroit, Mich.

It was announced that the following person was elected as a nominee of the Mathematical Association of America:

Mr. James W. Beach, Iowa State College.

The following appointments by President M. H. Stone were reported: As a committee to consider the advisability of reducing the term of office of the President of the Society from two years to one, Professors G. C. Evans (chairman), G. D. Birkhoff, A. J. Kempner, Solomon Lefschetz, and R. L. Moore; as representative of the Society at the inaugural ceremonies of the Mexican Mathematical Society on April 9, 1943, Professor P. R. Rider.

It was reported that Professor W. T. Martin had accepted an invitation to give an address at the October, 1943, meeting in New York and Professor Antoni Zygmund had accepted an invitation to give an address at the 1943 Summer Meeting.

The Council decided that the meeting scheduled with the American Association for the Advancement of Science in December, 1943, in Cleveland, be canceled, and that arrangements would be made to hold the 1943 Annual Meeting at another time and place.

On request of the editors of the new Quarterly of Applied Mathematics, the Council authorized the President to appoint a liaison officer to consult with the editors of that journal on problems of policy.

Titles and cross references to the abstracts of papers read at the meeting follow below. Papers 1 to 8 were read Friday morning, papers 9 to 14 on Friday afternoon, papers 15 to 26 on Saturday morning, and papers 27 to 37, whose abstract numbers are followed by the letter *t*, were read by title. Paper 1 was read by Dr. Kaplan, 4 by Professor Eilenberg, 12 by Miss Wetzel, and 18 by Dr. Helsel.

1. Wilfred Kaplan and Max Dresden: *Topology of the molecular N-body problem*. (Abstract 49-5-158.)

2. J. W. T. Youngs: *On parametric representations of surfaces*. III. (Abstract 49-5-177.)
3. Tibor Radó: *On continuous path-surfaces of zero area*. (Abstract 49-5-174.)
4. Samuel Eilenberg and Saunders MacLane: *On a group construction by Hopf*. (Abstract 49-1-95.)
5. R. H. Fox: *Natural systems of homomorphisms*. Preliminary report. (Abstract 49-5-172.)
6. A. H. Stone: *Connectedness and coherence*. (Abstract 49-3-124.)
7. G. E. Schweigert: *Fixed elements and periodic types for homeomorphisms on semi-locally-connected continua*. (Abstract 49-5-175.)
8. B. H. Arnold: *On decompositions of T_1 spaces*. (Abstract 49-5-170.)
9. A. E. Ross: *Positive quaternary quadratic forms representing all integers with at most k exceptions*. (Abstract 49-5-129.)
10. A. A. Albert: *Algebras derived by non-associative matrix multiplication*. (Abstract 49-3-103.)
11. Leon Alaoglu: *Harmonic analysis of stochastic processes*. Preliminary report. (Abstract 49-5-169.)
12. H. S. Wall and Marion D. Wetzel: *Contributions to the analytic theory of J -fractions*. Preliminary report. (Abstract 49-5-153.)
13. R. E. Lane: *The values of continued fractions and their computation*. (Abstract 49-5-142.)
14. John DeCicco: *Extensions of certain dynamical theorems of Halphen and Kasner*. (Abstract 49-3-119.)
15. R. W. Hamming: *The asymptotic location of the roots of exponential sums having polynomial exponents*. (Abstract 49-5-136.)
16. S. M. Ulam: *Theory of the operation of product of sets*. II. Preliminary report. (Abstract 49-5-151.)
17. M. M. Day: *Uniform convexity*. III. (Abstract 49-3-111.)
18. R. G. Hesel and Tibor Radó: *The transformation of double integrals*. (Abstract 49-5-137.)
19. G. B. Price: *Cauchy-Stieltjes and Riemann-Stieltjes integrals*. (Abstract 49-1-38.)
20. W. S. Snyder: *A note on the interiority of real functions*. Preliminary report. (Abstract 49-5-147.)
21. P. R. Halmos: *Approximation theories for measure preserving transformations*. (Abstract 49-5-135.)
22. H. D. Huskey: *Contributions to the problem of Geöcze*. (Abstract 49-5-140.)
23. H. K. Hughes: *On a theorem of Newsom*. (Abstract 49-5-139.)
24. Isaac Opatowski: *An explicit formula for the refractive index in*

electron optics. (Abstract 49-5-159.)

25. M. R. Hestenes: *On the condition of Weierstrass in the calculus of variations.* (Abstract 49-7-186.)

26. D. G. Bourgin: *On a quasi-linear operation.* (Abstract 49-5-171.)

27. L. W. Cohen: *On linear equations in Hilbert space.* (Abstract 49-5-131-t.)

28. G. E. Albert and L. H. Miller: *Equiconvergence of series of orthonormal polynomials.* Preliminary report. (Abstract 49-3-108-t.)

29. George Piranian: *On the convergence of certain partial sums of a Taylor series with gaps.* (Abstract 49-3-112-t.)

30. G. E. Albert: *An extension of Korov's inequality for orthonormal polynomials.* Preliminary report. (Abstract 49-3-107-t.)

31. Rufus Oldenburger: *The characteristic of a sum of quadratic forms.* (Abstract 49-1-12-t.)

32. G. E. Schweigert: *Minimal A-sets, infinite orbits, and fixed elements.* (Abstract 49-5-176-t.)

33. W. J. Thron: *Twin convergence regions for continued fractions.* (Abstract 49-5-150-t.)

34. J. E. Wilkins: *A special class of surfaces in projective differential geometry.* (Abstract 49-5-166-t.)

35. J. F. Harding and Isaac Opatowski: *An approximate formula for the Legendre elliptic integral of the second kind.* (Abstract 49-5-157-t.)

36. George Piranian: *On the order of analytic functions in the sense of Hadamard.* (Abstract 49-7-189-t.)

37. Reinhold Baer: *A theory of crossed characters.* (Abstract 49-7-178-t.)

38. Reinhold Baer: *Radical extensions and crossed characters.* (Abstract 49-7-179-t.)

W. L. AYRES,
Associate Secretary