

THE APRIL MEETING IN CHICAGO

The four hundred fourth meeting of the American Mathematical Society was held at the Museum of Science and Industry, Chicago, Illinois, on Friday and Saturday, April 28–29, 1944. The attendance was about one hundred twenty-five, including the following one hundred eleven members of the Society:

A. A. Albert, Warren Ambrose, E. W. Anderson, Reinhold Baer, Walter Bartky, P. O. Bell, S. F. Bibb, K. E. Bisshopp, B. H. Bissinger, G. A. Bliss, D. G. Bourgin, A. J. Brandt, J. L. Brenner, R. H. Bruck, Herbert Busemann, L. E. Bush, F. A. Butter, R. E. Byrne, Abraham Charnes, L. W. Cohen, Nancy Cole, Max Coral, B. K. Dickerson, Samuel Eilenberg, H. P. Evans, C. J. Everett, H. S. Everett, L. R. Ford, J. S. Frame, Evelyn Frank, J. H. Giese, J. W. Givens, R. A. Good, Cornelius Gouwens, L. M. Graves, L. W. Griffiths, V. G. Grove, R. W. Hamming, W. L. Hart, M. L. Hartung, C. T. Hazard, O. C. Hazlett, M. H. Heins, E. D. Hellinger, Fritz Herzog, J. F. Heyda, E. H. C. Hildebrandt, T. H. Hildebrandt, J. D. Hill, D. L. Holl, A. S. Householder, H. K. Hughes, M. H. Ingraham, Karl Johannes, G. K. Kalisch, Wilfred Kaplan, William Karush, D. E. Kearney, Fred Kiokemeister, W. C. Krathwohl, R. E. Langer, E. H. Larguier, A. L. Lewis, M. I. Logsdon, A. T. Lonseth, W. C. McDaniel, Janet MacDonald, C. C. MacDuffee, Morris Marden, J. R. Mayor, C. W. Mendel, Karl Menger, H. J. Miser, C. W. Moran, E. J. Moulton, A. L. Nelson, C. J. Nesbitt, Ivan Niven, Isaac Opatowski, J. W. Porter, Tibor Rado, R. B. Rasmusen, Maxwell Reade, W. T. Reid, Haim Reingold, M. D. P. Rochford, R. G. Sanger, O. F. G. Schilling, G. E. Schweigert, M. E. Shanks, I. S. Sokolnikoff, Abraham Spitzbart, N. E. Steenrod, C. F. Stephens, B. M. Stewart, A. H. Stone, R. L. Swain, J. L. Synge, R. M. Thrall, M. K. Toft, Henry Van Engen, Bernard Vinograde, S. E. Warschawski, J. V. Wehausen, G. W. Whitehead, L. R. Wilcox, J. E. Wilkins, M. A. Wurster, G. S. Young, J. W. T. Youngs, M. H. Zink.

Sessions for the reading of contributed papers were held on Friday morning, with Professor J. S. Frame presiding, and Saturday morning with Professor J. L. Synge presiding. On Friday afternoon, Professor J. L. Synge gave an invited address on *The problem of Saint Venant for a cylinder with free sides*, and Professor I. S. Sokolnikoff gave an invited address on *Torsion and flexure of compound prisms*. Professor Walter Bartky presided at these lectures.

All sessions were held in the West lecture hall in the Museum of Science and Industry.

Titles and cross references for the abstracts of papers read at the meeting follow below: Papers 1 to 8 were read Friday morning, papers 9 to 17 on Saturday morning, papers 18 to 38, whose abstract numbers are followed by the letter *t* were read by title. Paper 2 was read by Dr. Bissinger and paper 5 by Dr. Kaplan. Ida Roettinger was introduced by Professor R. V. Churchill.

1. J. E. Wilkins: *The contact of a cubic surface with a ruled surface.* (Abstract 50-5-161.)
2. B. H. Bissinger and Fritz Herzog: *An extension of some previous results on generalized continued fractions.* (Abstract 50-5-125.)
3. S. E. Warschawski: *On conformal mapping of nearly circular regions.* (Abstract 50-5-151.)
4. Maxwell Reade: *On functions of class PL.* (Abstract 50-5-145.)
5. Wilfred Kaplan and Max Dresden: *The mechanism of the condensation of gases.* (Abstract 50-5-152.)
6. Morris Marden: *Axisymmetric harmonic vectors.* (Abstract 50-5-153.)
7. H. K. Hughes: *The asymptotic expansions of entire functions defined by Maclaurin series.* (Abstract 50-5-138.)
8. Tibor Rado: *On the Geöcze area of Frechet surfaces.* Preliminary report. (Abstract 50-7-182.)
9. R. H. Bruck: *Quasigroups with the inverse property. I.* Preliminary report. (Abstract 50-5-107.)
10. G. K. Kalisch: *Generalized Hilbert spaces over fields with a non-Archimedean valuation.* (Abstract 50-5-113.)
11. G. S. Young: *Concerning spaces in which every arc has two sides.* (Abstract 50-5-170.)
12. Samuel Eilenberg: *Skew-invariant cohomology groups.* Preliminary report. (Abstract 50-5-166.)
13. N. E. Steenrod: *The classification of sphere bundles.* (Abstract 50-5-168.)
14. P. O. Bell: *A study of surfaces by means of a system of differential equations of the first order.* (Abstract 50-5-158.)
15. R. M. Thrall: *On modular representations induced by ordinary representations.* (Abstract 50-5-117.)
16. Bernard Vinograd: *On properties of completely primary rings.* (Abstract 50-5-118.)
17. Warren Ambrose: *A variation of a theorem of I.E. Segal on the group ring of a compact group.* (Abstract 50-7-172-t.)
18. Leon Alaoglu and Paul Erdős: *On highly composite and similar numbers.* (Abstract 50-5-103-t.)
19. Reinhold Baer: *Groups without proper isomorphic quotient groups.* (Abstract 50-5-105-t.)
20. Reinhold Baer: *Crossed isomorphisms.* (Abstract 50-7-173-t.)
21. Reinhold Baer: *The fundamental theorems of elementary geometry. An axiomatic analysis.* (Abstract 50-5-157-t.)
22. E. F. Beckenbach and Maxwell Reade: *Further results on mean-values and harmonic polynomials.* (Abstract 50-5-121-t.)

23. E. F. Beckenbach and Maxwell Reade: *Regular solids and harmonic polynomials*. (Abstract 50-5-122-t.)
24. R. H. Bruck: *Simple quasigroups*. (Abstract 50-5-108-t.)
25. H. D. Brunk: *Transformations of Dirichlet series*. Preliminary report. (Abstract 50-5-129-t.)
26. M. M. Day: *Cluster points of subsequences*. (Abstract 50-5-131-t.)
27. M. M. Day: *Inner-product spaces*. (Abstract 50-5-133-t.)
28. J. D. Hill: *Cesàro summability of sequences of 0's and 1's*. (Abstract 50-5-136-t.)
29. J. D. Hill: *Nörlund methods of summability that include the Cesàro methods of all positive orders*. (Abstract 50-5-137-t.)
30. G. B. Huff: *The completion of a theorem of Kantor*. (Abstract 50-3-93-t.)
31. Albert Newhouse: *On finite extending groups*. (Abstract 50-5-115-t.)
32. Maxwell Reade: *Two applications of generalized Laplaceans*. (Abstract 50-5-146-t.)
33. Ida Roettinger: *Certain integral transformations, with applications to boundary value problems*. (Abstract 50-5-155-t.)
34. M. F. Smiley: *An application of lattice theory to quasigroups*. (Abstract 50-5-116-t.)
35. C. F. Stephens: *Nonlinear difference equations analytic in a parameter*. (Abstract 50-5-148-t.)
36. F. A. Valentine: *Contractions in non-Euclidean spaces*. (Abstract 50-5-150-t.)
37. G. S. Young: *A generalization of Moore's theorem on simple triods*. (Abstract 50-5-169-t.)
38. G. S. Young: *On continua whose links are non-intersecting*. (Abstract 50-5-171-t.)

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Acting Associate Secretary