

THE FEBRUARY MEETING IN NEW YORK

The four hundred second meeting of the American Mathematical Society was held at Columbia University on Friday and Saturday, February 25–26. The attendance was approximately two hundred seventy-five including the following two hundred seven members of the Society:

C. R. Adams, E. B. Allen, H. W. Allen, C. B. Allendoerfer, R. L. Anderson, R. G. Archibald, K. J. Arnold, L. A. Aroian, S. P. Avann, Valentin Bargmann, A. E. Basch, Stefan Bergman, Lipman Bers, J. H. Bigelow, Garrett Birkhoff, Gertrude Blanch, Salomon Bochner, A. H. Bowker, C. B. Boyer, H. W. Brinkmann, H. C. Brodie, A. B. Brown, Hobart Bushey, J. H. Bushey, S. S. Chern, Alonzo Church, Harvey Cohn, L. M. Comer, T. F. Cope, Richard Courant, J. E. Crawford, H. B. Curry, M. D. Darkow, J. A. Daum, Jesse Douglas, Arnold Dresden, Nelson Dunford, William H. Durfee, J. E. Eaton, Benjamin Epstein, W. H. Fagerstrom, J. M. Feld, Will Feller, A. D. Fialkow, C. D. Firestone, Tomlinson Fort, R. M. Foster, F. H. Fowler, G. A. Foyle, W. C. G. Fraser, Bernard Friedman, K. O. Friedrichs, D. L. Fuller, R. E. Fullerton, G. N. Garrison, H. P. Geiringer, Abe Gelbart, B. H. Gere, B. P. Gill, Leonard Gillman, P. H. Graham, M. C. Gray, J. W. Green, Lewis Greenwald, C. C. Grove, E. J. Gumbel, Theodore Hailperin, D. W. Hall, P. R. Halmos, M. G. Harrison, J. O. Hassler, L. A. Hazeltine, M. H. Heins, Olaf Helmer, Max Herzberger, M. R. Hestenes, Einar Hille, Abraham Hillman, M. O. Hizon, Banesh Hoffman, A. P. Holló, Harold Hotelling, S. E. Hotelling, E. M. Hull, H. D. Huskey, L. C. Hutchinson, B. M. Ingersoll, R. P. Isaacs, Fritz John, R. A. Johnson, A. W. Jones, Mark Kac, Aida Kalish, Irving Kaplansky, Edward Kasner, Robert Kates, L. S. Kennison, S. A. Kiss, S. C. Kleene, J. R. Kline, Mark Kormes, Arthur Korn, D. M. Krabill, Jack Laderman, Howard Levene, Howard Levi, Simon Lopata, E. R. Lorch, Lee Lorch, A. N. Lowan, C. I. Lubin, N. H. McCoy, A. W. McMillan, Brockway McMillan, L. A. MacColl, H. F. MacNeish, H. B. Mann, A. J. Maria, M. H. Martin, W. T. Martin, A. E. Meder, K. S. Miller, L. W. Miller, Don Mittleman, Deane Montgomery, D. J. Morrow, David Moskovitz, M. E. Munroe, C. A. Nelson, Otto Neugebauer, A. V. Newton, E. N. Nilson, P. B. Norman, C. O. Oakley, L. F. Ollmann, A. F. O'Neill, Oystein Ore, J. C. Oxtoby, L. G. Peck, A. M. Peiser, F. W. Perkins, Hillel Poritsky, E. L. Post, Willy Prager, Walter Prenowitz, M. H. Protter, A. L. Putnam, R. G. Putnam, H. W. Reddick, Mina Rees, Helene Reschovsky, Moses Richardson, R. G. D. Richardson, D. E. Richmond, C. E. Rickart, J. F. Ritt, R. K. Ritt, E. K. Ritter, H. E. Robbins, M. S. Robertson, P. C. Rosenbloom, J. E. Rosenthal, E. A. Saibel, Raphael Salem, H. E. Salzer, Hans Samelson, Arthur Sard, L. J. Savage, S. A. Schelkunoff, C. E. Shannon, Seymour Sherman, Max Shiffman, L. L. Silverman, D. M. Smiley, M. F. Smiley, P. A. Smith, Ernst Snapper, E. R. Stabler, Fritz Steinhardt, Wolfgang Sternberg, G. R. Stibitz, J. J. Stoker, R. R. Stoll, M. H. Stone, W. J. Strange, E. G. Straus, M. M. Sullivan, Fred Supnick, J. D. Tamarkin, E. B. Tolsted, C. C. Torrance, E. M. Torrance, A. W. Tucker, J. W. Tukey, A. R. Turquette, G. L. Walker, R. M. Walter, W. R. Wasow, G. C. Webber, Louis Weisner, Hermann Weyl, A. M. Whelan, P. M. Whitman, John Williamson, W. H. Wise, Jacob Wolfowitz, Antoni Zygmund.

President M. H. Stone presided at the general session Friday eve-

ning at which Professor H. W. Emmons gave an address on *Numerical methods of solving partial differential equations*. The address was followed by a general discussion led by Professors Richard Courant and Harold Hotelling.

On Saturday morning there were two sections, one for papers in Analysis and Geometry at which Professor W. T. Martin presided, and one for papers in Algebra, Statistics, and Applied Mathematics at which Professors Oystein Ore and H. B. Curry presided.

At the general session Saturday afternoon Professor E. L. Post gave an address entitled *Recursively enumerable sets of positive integers and their decision problems*. Professor J. D. Tamarkin presided.

Titles and cross references to the abstracts of the papers read follow below. Papers whose abstract numbers are followed by the letter *t* were read by title. Papers numbered 1 to 9 were presented in the section for Analysis and Geometry, papers 10 to 20 in the section for Algebra, Statistics, and Applied Mathematics, papers 21 to 54 were presented by title. Paper 6 was read by Professor Kasner, paper 13 by Mr. Churchman. Mr. Vazsonyi was introduced by Professor J. R. Kline and Professor Wang by Professor J. A. Shohat.

1. A. M. Peiser: *Some applications of Fourier analysis to the study of real roots of algebraic equations*. (Abstract 50-3-65.)
2. B. M. Ingersoll: *On singularities of solutions of linear partial differential equations*. (Abstract 50-3-60.)
3. C. E. Rickart: *Representation of linear transformations on summable functions*. (Abstract 50-3-67.)
4. M. F. Smiley: *An extension of metric distributive lattices with an application in general analysis*. (Abstract 50-3-74.)
5. Jesse Douglas: *Separable transformations with separable inverse*. (Abstract 50-3-58.)
6. Edward Kasner and John DeCicco: *Scale curves in conformal maps*. (Abstract 50-3-95.)
7. S. S. Chern: *A simple intrinsic proof of the Gauss-Bonnet formula for Riemannian polyhedra*. (Abstract 50-3-90.)
8. J. M. Feld: *On a representation in space of groups of circle and turbine transformations in the plane*. (Abstract 50-3-91.)
9. Wolfgang Sternberg: *On difference equations*. (Abstract 50-1-33.)
10. A. W. Jones: *The lattice isomorphisms of certain finite groups*. (Abstract 50-3-53.)
11. P. M. Whitman: *Lattices and equivalence relations*. Preliminary report. (Abstract 50-3-57.)
12. Raphael Salem: *On a remarkable class of algebraic integers. Proof of a conjecture of Vijayaraghavan*. (Abstract 50-3-55.)

13. Benjamin Epstein and C. W. Churchman: *On the statistics of sensitivity data.* (Abstract 50-3-96.)
14. H. E. Robbins: *On the measure of a random set.* (Abstract 50-3-98.)
15. E. J. Gumbel: *The observed return period.* (Abstract 50-3-97.)
16. Stefan Bergman: *On solutions of certain partial differential equations in three variables.* (Abstract 50-3-78.)
17. R. P. Isaacs: *Airfoil theory for flows of variable velocity.* (Abstract 50-3-83.)
18. Andrew Vazsonyi: *On two-dimensional rotational gasflows.* (Abstract 50-3-88.)
19. Max Herzberger: *The diapoint characteristic.* (Abstract 50-3-82.)
20. David Moskovitz: *Numerical solution of Laplace's and Poisson's equations.* (Abstract 50-3-85.)
21. Stefan Bergman: *A Hermitian metric and its property.* (Abstract 50-3-89-t.)
22. C. L. Clark: *Arc reversing transformations.* (Abstract 50-3-99-t.)
23. Nathaniel Coburn: *A boundary value problem in plane plasticity for the Coulomb yield condition.* (Abstract 50-3-79-t.)
24. A. L. Foster and B. A. Bernstein: *Symmetric definition and duality theorem for rings.* (Abstract 50-1-12-t.)
25. K. O. Friedrichs: *The identity of weak and strong extensions of differential operators.* (Abstract 50-3-59-t.)
26. H. L. Garabedian: *The analogue of Bromwich's theorem for integral transformations.* (Abstract 50-3-80-t.)
27. Mariano García: *Component orbits under pointwise recurrent homeomorphisms.* (Abstract 50-3-100-t.)
28. W. H. Gottschalk: *Powers of homeomorphisms with almost periodic properties.* (Abstract 50-3-101-t.)
29. D. W. Hall: *On rotation groups of plane continuous curves under pointwise periodic homeomorphisms.* (Abstract 50-3-102-t.)
30. C. C. Hsiung: *Some invariants of certain pairs of hypersurfaces.* (Abstract 50-3-92-t.)
31. Dunham Jackson: *Orthonormal polynomials on loci of the second degree.* (Abstract 50-5-139-t.)
32. Mark Kac: *On real zeros of some functions.* (Abstract 50-3-61-t.)
33. Edward Kasner and John DeCicco: *Scale curves in cartography.* (Abstract 50-3-94-t.)
34. Jakob Levitzki: *A characteristic minimal condition for semi-*

primary rings. (Abstract 50-1-14-t.)

35. A. T. Lonseth: *Dirichlet's principle for $\Delta u = F_u(u; x, y)$.* (Abstract 50-3-62-t.)

36. Szolem Mandelbrojt: *Some theorems connected with the theory of infinitely differentiable functions.* (Abstract 50-3-63-t.)

37. R. v. Mises: *Note on the numerical solution of linear partial differential equations.* (Abstract 50-3-84-t.)

38. H. E. Newell: *The solutions of a certain linear matrix differential equation.* (Abstract 50-3-64-t.)

39. Isaac Opatowski: *Use of special functions in a problem of uniform strength.* (Abstract 50-3-86-t.)

40. Oystein Ore: *Galois connexions.* (Abstract 50-3-54-t.)

41. Harry Pollard: *Fourier series with coefficients in a Banach space.* (Abstract 50-3-66-t.)

42. H. E. Robbins: *A note on the Riemann integral.* (Abstract 50-3-68-t.)

43. F. H. Safford: *Analysis of a non-harmonic wave.* (Abstract 50-3-69-t.)

44. Raphael Salem: *On a theorem of Bohr and Pál.* (Abstract 50-3-70-t.)

45. Raphael Salem: *Sets of uniqueness and sets of multiplicity. II.* (Abstract 50-3-71-t.)

46. H. E. Salzer: *Supplementary calculation of coefficients for numerical integration with central differences.* (Abstract 50-1-41-t.)

47. H. E. Salzer: *Table of coefficients for inverse interpolation with advancing differences.* (Abstract 50-3-87-t.)

48. A. R. Schweitzer: *On functional equations with solutions containing arbitrary functions. IV.* (Abstract 50-3-72-t.)

49. A. R. Schweitzer: *On functional equations with solutions containing arbitrary functions. V.* (Abstract 50-3-73-t.)

50. W. J. Thron: *Sets of convergence for continued fractions.* Preliminary report. (Abstract 50-1-34-t.)

51. F. T. Wang: *On Riesz summability of Fourier series. IV.* (Abstract 50-3-75-t.)

52. F. T. Wang: *Some remarks on oscillating series.* (Abstract 50-3-76-t.)

53. P. M. Whitman: *Identities in lattices of equivalence relations.* Preliminary report. (Abstract 50-3-56-t.)

54. D. V. Widder: *The iterates of the Laplace kernel.* (Abstract 50-3-77-t.)

T. R. HOLLCROFT,
Associate Secretary