

THE ANNUAL MEETING IN WASHINGTON, D.C.

The eighty-first annual meeting of the American Mathematical Society was held at the Shoreham Americana Hotel, Washington, D.C., from Thursday, January 23, through Sunday, January 26, 1975. There were 4272 registrants, including 2967 members of the Society. The meeting was held in conjunction with the annual meeting of the Association for Symbolic Logic (January 23–24) and the annual meeting of the Mathematical Association of America (January 25–27). There were concurrent meetings of the Association for Women in Mathematics (January 24) and the National Council of Teachers of Mathematics (January 25–26).

A series of Colloquium Lectures, entitled *New directions in model theory* and consisting of four one-hour talks, was presented by Professor H. Jerome Keisler of the University of Wisconsin, Madison. He was introduced at the four lectures by Professors Lipman Bers, Saunders Mac Lane, Joseph R. Shoenfield, and Mary Ellen Rudin.

The Retiring Presidential Address, entitled *Topology and logic as sources of algebraic ideas*, was presented by Professor Saunders Mac Lane of the University of Chicago; he was introduced by Professor Lipman Bers.

The forty-eighth Josiah Willard Gibbs Lecture, entitled *A priori estimates, geometric effects, and asymptotic behavior*, was presented by Professor Fritz John of the Courant Institute of Mathematical Sciences, New York University; he was introduced by Professor Lipman Bers.

By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there were eight one-hour addresses. Professor Donald W. Anderson of the University of California, San Diego, spoke on *Fibrations and geometric realizations*; he was introduced by Professor Erik Hemmingsen. Professor Donald L. Burkholder of the University of Illinois, Urbana-Champaign, spoke on *Martingale methods in analysis*; he was introduced by Professor Choy-tak Taam. Professor Sigurdur Helgason of the Massachusetts Institute of Technology spoke on *Invariant differential equations on homogeneous manifolds*; he was introduced by Professor Philip Hartman. Professor Linda Keen of the City University of New York, Lehman College and Graduate School and University Center, spoke on *On real Teichmüller spaces and their modular groups*; she was introduced by Professor Wendell H. Fleming. Professor Haskell P. Rosenthal of the University of Illinois, Urbana-Champaign, spoke on *Some recent discoveries in the isomorphic theory of Banach spaces*; he was introduced by Professor G. Baley Price. Professor Rainer K. Sachs of the University of California, Berkeley, spoke on *General relativity and cosmology*; he was introduced by Professor Richard C. Di Prima. Professor Wilfried Schmid of Columbia University spoke on *Representations of semisimple Lie groups (a nontechnical survey)*; he was introduced by Professor George D. Mostow. Professor Nolan R. Wallach of

Rutgers University spoke on *A representation theoretic proof of a formula of Max Noether*; he was introduced by Professor Ronald L. Lipsman.

There were two awards of the Frank Nelson Cole Prize in Algebra: to Professor Hyman Bass of Columbia University for his basic work on algebraic K -theory, most recently the memoir *Unitary algebraic K -theory* in Springer Lecture Notes No. 343, 1973; to Professor Daniel G. Quillen of the Massachusetts Institute of Technology for his memoir *Higher algebraic K -theories* in Springer Lecture Notes No. 341, 1973.

There were three awards of the LeRoy P. Steele Prize in Honor of George David Birkhoff, William Fogg Osgood, and William Caspar Graustein: to Professor Lipman Bers of Columbia University for his paper *Uniformization moduli, and Kleinian groups*, Bull. London Math. Soc. **4** (1972), 257–300; to Professor Martin D. Davis of the Courant Institute of Mathematical Sciences, New York University, for his paper *Hilbert's tenth problem is unsolvable*, Amer. Math. Monthly **80** (1973), 233–269; to Professor Joseph L. Taylor of the University of Utah for his paper *Measure algebras*, CBMS Regional Conference Series in Mathematics No. 16, American Mathematical Society, Providence, R.I., 1972.

Dr. H. Guyford Stever, Director of the National Science Foundation, addressed the Society on “Basic research in a problem plagued world”; he was introduced by Professor R. H. Bing.

The AMS Committee on Employment and Educational Policy arranged a panel discussion on “Seeking employment outside academia: Views from some who have recently succeeded”. Panel members were: Steve Bravy, John Matherne, Martha K. Smith (moderator), and Michael Weiss.

The AMS-MAA Committee on the Training of Graduate Students to Teach arranged a panel discussion on “Schemes for training graduate students to teach: Four reports”. Panel members were: Robert L. Anderson, Anthony L. Peressini, G. Thomas Sallee, David I. Schneider, Philip Treisman, James H. Wells (moderator).

The Conference Board of the Mathematical Sciences arranged a panel discussion on “Wide-ranging applications of statistics”. Panel members were: Joseph B. Kruskal, Mervin E. Muller, Joan R. Rosenblatt (moderator), and Marvin Zelen.

Professor William B. Arveson of the University of California, Berkeley, organized a special session on Operator Theory. Speakers were: William B. Arveson, Sun-Yung Chang, Izrail Gohberg, William Helton, Catherine Olsen, Norberto Salinas.

Professors Joseph Auslander and Nelson G. Markley of the University of Maryland, College Park, organized a special session on Topological Dynamics. Speakers were: Allan Jaworski, Harvey B. Keynes, John C. Martin, Douglas McMahon, Michael E. Paul, William L. Reddy, Leonard Shapiro.

Professor A. T. Bharucha-Reid of Wayne State University organized a special session on Probabilistic Analysis. Speakers were: N. U. Ahmed, Pao-Liu Chow, Avner Friedman, Harry Kesten, James Kuelbs, Hui-Hsiung

Kuo, George C. Papanicolaou, M. Ann Piech, Mark A. Pinsky, A. N. Rao, Murray Rosenblatt, Walter Rosenkrantz.

Professor W. Wistar Comfort of Wesleyan University organized a special session on Set-theoretic and Combinatorial Methods in Topology. Speakers were: Stephen H. Hechler, István Juhász, Kenneth Kunen, Stelios Negrepon-tis, Karel Prikry, Mary Ellen Rudin, Franklin D. Tall, W. A. R. Weiss.

Professor Constantine M. Dafermos of Brown University organized a special session on Hyperbolic Conservation Laws. Speakers were: E. D. Conway, Michael G. Crandall, Constantine M. Dafermos, Ronald J. DiPerna, Avron Douglis, James M. Greenberg, John Guckenheimer, Peter D. Lax, Tai-Ping Liu, David G. Schaeffer, Joel Smoller, Burton Wendroff.

Professor David Eisenbud of Brandeis University organized a special session on Some Directions of Current Progress in Commutative Algebra. Speakers were: E. Graham Evans, Jr., Stephen Gersten, Melvin Hochster, Harvey Margolis, T. T. Moh, M. P. Murthy, Arthur Ogus.

Professor Bernard A. Fusaro of Salisbury State College organized a special session on Singular Cauchy Problems. Speakers were: Louis R. Bragg, Robert W. Carroll, John W. Dettman, J. A. Donaldson, Howard A. Levine, R. E. Showalter, Eutiquio C. Young.

Professors John E. Gilbert and George G. Lorentz of the University of Texas, Austin, organized a special session on Interpolation of Operators and Applications. Speakers were: Colin Bennett, Harold E. Benzinger, William Connett, John J. F. Fournier, John E. Gilbert, Carl S. Herz, Richard A. Hunt, Benjamin Muckenhoupt, Nestor M. Rivière, Robert Sharpley III, E. M. Stein, A. Torchinsky, Guido Weiss, Misha Zafran.

Professor Emil Grosswald of Temple University organized a special session on Analytic Number Theory. Speakers were: Craig M. Cordes, Frank Gerth III, Larry J. Goldstein, Donald Hazlewood, Hugh L. Montgomery, Carl Pomerance, Ian Richards, Mark Sheingorn, H. M. Stark, A. Terras, Riho Terras.

Professor Frank Harary of the University of Michigan organized a special session on Advances in Graph Theory. Speakers were: Claude Berge, Frank R. Bernhart, H. S. M. Coxeter, Joan P. Hutchinson, Anton Kotzig, Linda Lesniak, J. W. Moon, E. M. Palmer, R. C. Read, Gerhard Ringel, Allen J. Schwenk, Paul K. Stockmeyer.

Dr. Morris Newman of the National Bureau of Standards organized a special session on Interrelations Between Computation and Number Theory. Speakers were: Paul T. Bateman, R. L. Graham, Harald Niederreiter, Lowell Schoenfeld, Daniel Shanks, P. J. Weinberger, M. C. Wunderlich.

Professor George B. Seligman of Yale University organized a special session on Structure and Representations of Lie Algebras over General Fields. Speakers were: Bruce N. Allison, Georgia Benkart, Stephen Berman, Richard E. Block, John R. Faulkner, Joseph C. Ferrar, Marguerite Frank, Michael A. Gauger, J. E. Humphreys, John B. Jacobs, David Kopcsó, P. C. Kutzko, James Lepowsky, John McConnell, John Schue, Helmut Strade, Robert Lee Wilson.

Professor François Trèves of Rutgers University organized a special session on Fourier Integral Operators. Speakers were: Victor W. Guillemin, Robert T. Seeley, Alan Weinstein.

Professor Stanislaw M. Ulman of the University of Colorado conducted a special session on Mathematics and Games. Speakers were: Claude Berge, Aviezri S. Fraenkel, Richard K. Guy, David S. Lawrence, Donald A. Martin, Jan Mycielski, Joel H. Spencer, Edward Thorp.

Professor Ruth A. Bari of George Washington University organized an informal special session on Color Theory. Professor James D. Stasheff of Temple University conducted an informal special session on Finite H -Spaces.

There were 64 sessions for contributed ten-minute papers, chaired by Clifford O. Bloom, James V. Blowers, Gerald A. Bottorff, James W. Burgmeier, Charles L. Byrne, Thomas E. Cecil, A. C. Cochran, Stephen D. Comer, Lokenath Debnath, William R. Derrick, J. R. Diederich, Sheldon M. Eisenberg, David F. Findley, Charles Ford, Timothy V. Fossum, Ladnor Geissinger, Henry W. Gould, L. J. Gray, J. Myron Hood, David Horowitz, Ter-Jenq Hung, Alfred Inselberg, Barbara Jeffcott, Harold Johnson, Roy A. Johnson, Hugo D. Junghenn, John Karlof, V. S. Krishnan, Gangaram S. Ladde, Ping-Fun Lam, Dana May Latch, Wayne M. Lawton, Will Y. Lee, Eugene H. Lehman, Roger T. Lewis, Donald J. McCarthy, Peter A. McCoy, John N. McDonald, Joyce R. McLaughlin, Susan Milton, Richard K. Molnar, Charles F. Osgood, Mark Pankin, Stanley E. Payne, Clinton M. Petty, Gerald P. Protomastro, George M. Reed, Judith Roitman, Kenneth A. Ross, James L. Rovnyak, Frank Servedio, Kusum Soni, Robert M. Stephenson, Jr., Mark L. Teply, Jeffrey L. Tollefson, Robert G. van Meter, Hoyt D. Warner, Richard H. Warren, James E. Williamson, James J. Woepfel, Stephen J. Wolfe, Robert M. Young, William R. Zame, David E. Zitarelli.

On the recommendation of its Committee on Employment and Educational Policy, the American Mathematical Society presented a one and one-half day Short Course on Mathematics in Operations Research on January 21 and 22 at the Shoreham Hotel. The program was under the direction of Dr. Alan J. Goldman of the National Bureau of Standards. Lecturers were: Dr. Ralph E. Gomory, Dr. Carl M. Harris, Professor Frank Proschan, Dr. Gordon Raisbeck, Professor Arthur F. Veinott, and Dr. Christoph Witzgall.

The Council met in the Tudor Room of the Shoreham Americana Hotel in Washington, D.C. at 2:00 P.M. on January 22, 1975.

The Council considered some questions of editorial policy for the Proceedings. The Editors were encouraged to facilitate their editorial function by publishing a statement about what constitutes a publishable paper. The lines of the statement were clear and the statement subsequently produced by the Editors is as follows:

To be published in the Proceedings, a paper must be true, new, and nontrivial; further, it must be accessible and of interest to a substantial number of mathematicians. Piecemeal results, such as a first and inconclusive step toward an unproved major theorem, or a minor variation on a known result, are in general not acceptable for publication.

The Council recommended to the Trustees that the Proceedings return to a “zero backlog” publication policy.

The Council authorized the use of “blind refereeing” by the Proceedings as a two-year experiment, to be followed by a review. In this procedure, the author offering a paper supplies a second copy without the name of the author or of his institution. The second copy is the one that goes to a referee.

The Council agreed in principle with a proposal to abolish reciprocity agreements and to offer membership to an appropriately defined group of foreign mathematicians at a reduced rate. The President was authorized to appoint a committee to coordinate a complete proposal after consultation with appropriate individuals and organizations.

The Council passed the following resolution concerned with twenty-minute invited or contributed papers:

The Council records its position that an individual who presents a twenty-minute paper at a meeting of the Society, either by contributing it or by invitation, shall present an acceptable abstract for publication in the NOTICES by the date of the published deadline for receipt of abstracts for that meeting. As with contributed ten-minute papers, the Associate Secretary will not schedule a twenty-minute paper for which no abstract is at hand.

The Council received the information that Charles W. Curtis and Jacob T. Schwartz had been elected to the Executive Committee.

The Council adjourned at 10:00 P.M.

The Business Meeting took place in the Regency Ballroom of the Shoreham Americana Hotel on January 24, 1975 at 4:30 P.M. with President Bers in the chair.

The Secretary reported on actions of the Council of immediate interest to the membership at its meetings of May 12, 1974 in DeKalb [this Bulletin, pp. 819–820], October 25, 1974 [ibid, p. 821], and January 22, 1975 as reported above.

Professor Alice Schafer reported on the status of the postdoctoral research fellowship program.

Professor Diane Laison offered a procedural motion, seconded by Professor Ed Dubinsky, that the following motion be placed on the agenda of the Business Meeting at the Summer Meeting in Kalamazoo in August 1975. The text is as follows:

In the face of the deepening economic crisis, the rapidly rising unemployment from which mathematicians are not exempt, the ominous nature of massive budget cuts for education and other social services, and the Presidential request for an immediate increase of 300 million for military aid to the Thieu regime augmenting the already huge military budget, it is the sense of this meeting that the federal government must:

1. fund a national open admissions program at institutions of higher education;
2. fund a massive public works program which will use the skills of the presently and soon-to-be unemployed (including mathematicians) for sorely needed socially useful tasks;
3. transfer massive funds from the military budget to accomplish these aims.

We call upon the officers of the Society to work towards effecting the implementation of the above.

The procedural motion was passed by a vote of 118 to 112.

Professor Israel N. Herstein offered a procedural motion, duly seconded, that the following motion be placed on the agenda of the same Business Meeting:

Resolved that the AMS will not cooperate with UNESCO until such time as the ruling removing Israel from any regional grouping is rescinded.

The procedural motion passed with no record of the vote.

Professor Saunders Mac Lane offered a procedural motion, duly seconded, that the following motion be placed on the agenda of the same Business Meeting:

That the officers of the Society be requested to arrange that an early meeting of the Society schedule an open session intended to discuss the possible establishment of an independent *Association of Mathematicians for Social Action*.

The procedural motion was passed by a vote of 86 to 69.

By request, the Secretary notes that the motion was initially offered as a main motion, subject to immediate vote, rather than as part of a procedural motion. A point of order was raised whether the motion called for "final action" in the sense of Article X, Section 1, of the bylaws and thus was not subject to an immediate vote. The President ruled that, since it primarily called for the internal action of "discussion" rather than the taking of a position of "establishment", it did not constitute final action. Professor Mac Lane stated that he did not wish to see the ruling of the chair tested by a vote and withdrew his initial offering of the motion in favor of the procedural resolution to place it on the next agenda.

The meeting was adjourned at 6:00 P.M.

BETHLEHEM PENNSYLVANIA

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Secretary

WALTER H. GOTTSCHALK
Associate Secretary