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April 15, 1985

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the system being modelled. An evolutionary process in which one retains at each iteration the best set of equations—literally survival of the fittest. AWR

**Statistics, P. Incomplete Data in Sample Surveys.** Ed: William G. Madow, Harold Nisselson, Ingra Olkin. Academic Pr, 1983, \$50 each. **Volume 1: Report and Case Studies**, xxiii + 495 pp [ISBN: 0-12-363901-8]; **Volume 2: Theory and Bibliographies**, xxv + 579 pp [ISBN: 0-12-363902-6]; **Volume 3: Proceedings of the Symposium**, xxvi + 413 pp [ISBN: 0-12-363903-4]. The Panel on Incomplete Data was organized in 1977 to make a comprehensive review of the literature on survey incompleteness and to explore ways of improving methods of dealing with it. This is a report of the work done by the Panel. MT

**Computer Programming, S\*(13). The Calculus Companion to Accompany Calculus, Second Edition, by Howard Anton.** William H. Barker, James E. Ward. Wiley, 1984. **Volume 1**, \$15.95 (P) [ISBN: 0-471-09230-4]; **Volume 2**, \$12.95 (P) [ISBN: 0-471-88614-9]. A hefty collection of self-contained units which correspond to Anton's chapters. A chatty treatment of algebra and trigonometry review, motivation, word problem strategy and detailed computations which marvelously complements the text. No additional problems or proofs. Focuses on deepening rather than expanding the discussion. MA

**Computer Science, S(18), P. Lecture Notes in Computer Science-177: Programming Languages and Their Definition.** H. Bekič. Springer-Verlag, 1984, xxxii + 254 pp, \$13 (P). [ISBN: 0-387-13378-X] Includes unpublished papers and manuscripts of the late Hans Bekič of IBM Vienna. Papers are on denotational semantics and mathematical theory of parallelism. FA

**Computer Science, P. Lecture Notes in Computer Science-175: P-Functions and Boolean Matrix Factorization.** André Thayse. Springer-Verlag, 1984, vii + 248 pp, \$13 (P). [ISBN: 0-387-13358-5] Covers research results in algorithm description and implementation. Describes an algebraic representation model that allows for the synthesis of algorithms to be implemented on a control automaton (high-level virtual machine) that is realized as an operational automaton (at a low level). FA

**Applications, P, L\*. Cybernetics: Theory and Applications.** Ed: Robert Trappl. Hemisphere, 1983, xii + 455 pp, \$80. [ISBN: 0-89116-128-7] An introduction to the field, surveying most of its methods and results together with many chapters describing applications (e.g., to biology, linguistics, artificial intelligence, health care, etc.). A valuable reference. JRG

**Applications (Biology), S(18). Lecture Notes in Biomathematics-53: Evolutionary Dynamics of Genetic Diversity.** G.S. Mani. Springer-Verlag, 1984, vii + 312 pp, \$17 (P). [ISBN: 0-387-12903-0] Papers from a symposium on "The Basis of Genetic Diversity." Includes a review of polymorphism, its evolutionary significance and a discussion of variability at the enzyme and DNA level. An ecological-genetic model and a "stress-triggered" model are presented. FA

**Applications (Engineering), T(17), P. Optimisation Methods in Electronics and Communications.** Ed: Kenneth W. Cattermole, John J. O'Reilly. Math. Topics in Telecomm., V. 1. Wiley, 1984, 156 pp, \$24.95. [ISBN: 0-471-80765-6] The first volume in an intended series for practicing engineers and graduate students in telecommunications who need more training in mathematics. Focus of **Volume One** is on calculus of variations. AWR

**Applications (Physics), P. Clifford Algebra to Geometric Calculus: A Unified Language for Mathematics and Physics.** David Hestenes, Garret Sobczyk. Fundamental Theories of Physics. D Reidel, 1984, xviii + 314 pp, \$58. [ISBN: 90-277-1673-0] Clifford algebra is an infinite-dimensional real algebra designed to express geometric concepts of mathematics and mathematical physics in a unified fashion. The authors refine and develop Clifford algebra through what they call geometric algebra to geometric calculus. The goal is to develop a unified language capable of expressing results of differential and integral calculus on manifolds. Further volumes pursuing the same ideas are planned. PZ

**Applications (Social Science), P. Coalitions and Collective Action.** Ed: Manfred J. Holler. Physica-Verlag, 1984, vi + 350 pp, \$47.10 (P). [ISBN: 3-7908-0299-9] A collection of short essays on the theory of how coalitions form and on whether they are stable. Game theory and Arrow's Theorem form basic starting points. A lively introduction notes the tendency of economists to build models assuming perfect information, no collusion, pure competition, actors who do not meet other actors but base decisions on supply and demand curves. "Communication, strategies, perceptions, and feelings do not count since information is perfect and the world is homogeneous." Essays in this book do not take this viewpoint. AWR

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Terms of members expire, except where otherwise noted, at the end of the Annual Meeting in January following the last year of service listed below. For temporary committees, no terms are listed since they are automatically discharged at the expiration of the President's term of office, which is the Annual Meeting in January, 1986.

Executive Committee:

Lynn A. Steen, Chairman (1985-87); Gerald L. Alexanderson (1984-85); Ronald M. Davis (1985-86); Leonard Gillman (1983-87); Paul R. Halmos (1982-86); Ivan Niven (1985); Kenneth A. Ross (1984-1989).

Finance Committee:

Lynn A. Steen, Chairman (1985-87), ex-officio; Lida K. Barrett (1984-87); Leonard Gillman (1983-87), ex-officio; Donald L. Kreider (1978-85); Ivan Niven (1983-86), ex-officio; Kenneth A. Ross (1984-1989) ex-officio.

Audit and Budget Committee: Donald L. Kreider, Chairman (1978-85); Lida K. Barrett (1984-87).

Investment Committee: Leonard Gillman, Chairman (1983-87), ex-officio; Henry L. Alder (1984-86); Harley Flanders (1984-86); Gerald J. Porter (1983-85); Kenneth A. Ross (1984-1989) ex-officio; James M. Vaughn, Jr. (1984-86).

Staff and Services Committee: Leonard Gillman, Chairman (1983-87); Lynn A. Steen (1986), both ex-officio.

Advisory Committee on the Archives of American Mathematics:

Judith V. Grabiner, Chairman (1979-85); Churchill Eisenhart (1984-86); Leonard Gillman (1979-85).

Committee on Archival Holdings in Mathematics:

Sanford L. Segal, Chairman (1984-85); Jeanne LaDuke (1984-85); Albert C. Lewis (1984-85); Uta C. Merzbach (1984-85).

Nominating Committee:

William G. Chinn, Chairman (1985); Richard D. Anderson (1985); Jerome A. Goldstein (1985-86); Warren Page (1985-86); Alan C. Tucker (1985-86).

Nominating Committee for the Editor of the Monthly:

Alan C. Tucker, Chairman; Donald J. Albers; Stephen B. Maurer; Barbara L. Osofsky.

Committee on Committees:

Lynn A. Steen, Chairman (1985-87), ex-officio; Ivan Niven (1982-85), ex-officio; Kenneth A. Ross (1985-89), ex-officio; Alfred B. Willcox, ex-officio.

Committee on Corporate Members:

Richard A. Moynihan, Chairman (1981-85); Jeremiah J. Lyons (1981-86); Henry O. Pollak (1983-85); Peter L. Renz (1984-86); Alfred B. Willcox (1980-85), ex-officio.

Committee on Earle Raymond Hedrick Lectures:

James W. Cannon, Chairman (1985-86); Neil J.A. Sloane (1985-88); Elias M. Stein (1984-87).

Committee on American Mathematics Competition (CAMC):

Stephen B. Maurer, Chairman (1981-86); Richard D. Anderson (1985-86); Joyce Becker (1984-85); George Berzsenyi (1983-85); James D. Bristol (1983-85); Bruce Brombacher (1987); Thomas R. Butts (1982-86); Michael Ecker (1985-87); Elgin Johnston (1985-87); Irwin W. Kaufman (1982-85); Thomas R. Knapp (1987); Joseph Konhauser (1982-85); Gerald E. Martau (1984-86); Steven

Meiring (1984-86); Walter E. Mientka (1979-85); Robert Musen (1987); Harold Reiter (1984-86); Ian Richards (1987); Stephen Rodi (1987); Leo J. Schneider (1980-85); Margaret W. Tiller (1982-85); Dorothy Wendt (1984-86); Melvin R. Woodard (1981-86).

Subcommittee on the American High School Mathematics Examination: Stephen B. Maurer, Chairman (1981-86); George Berzsenyi (1982-85), ex-officio; Thomas R. Butts (1980-86), ex-officio; Thomas R. Knapp (1987); Gerald E. Martau (1984-86); Walter E. Mientka (1980-85), ex-officio; Harold Reiter (1984-86); Ian Richards (1987); Leo J. Schneider (1980-85); Dorothy Wendt (1984-86).

Subcommittee on the American Junior High School Mathematics Examination: Thomas R. Butts, Chairman (1982-86); Richard D. Anderson (1985-86); Michael Ecker (1985-87); Elgin Johnston (1985-87); Irwin Kaufman (1984-85); Stephen B. Maurer (1981-86), ex-officio; Steven Meiring (1984-86); Walter E. Mientka (1981-85), ex-officio; Stephen Rodi (1987); Melvin R. Woodard (1986).

Subcommittee on the American Invitational Mathematics Examination: George Berzsenyi, Chairman (1982-85); James D. Bristol (1982-85); Michael W. Ecker (1987); Elgin Johnston (1987); Stephen B. Maurer (1981-86), ex-officio; Walter E. Mientka (1980-85), ex-officio; Ian Richards (1987).

Advisory Panel of the Committee on High School Contests: David Bernstein (1985); W.J. Blundon (1985); Kenneth A. Brown, Jr. (1985); Pamela Drummond (1985); Richard A. Gibbs (1985); Samuel L. Greitzer (1985); Douglas A. Hensley (1985); Sheila Krilov (1985); Eric Lander (1985); Eugene McGovern (1985); Richard Parris (1985); Stanley Rabinowitz (1985); Richard Rhoad (1985); Mark Saul (1985); Akehiko Takahashi (1985); Claire Tuckman (1985).

Subcommittee on the USA Mathematical Olympiad: J. Ian Richards, Chairman (1985-87); George Berzsenyi (1980-85), ex-officio; Irwin W. Kaufman (1982-85); Murray S. Klamkin, Problems Chairman (1982-85); Joseph Konhauser (1982-85); Andrew Liu (1981-86); Stephen B. Maurer (1986), ex-officio; Walter E. Mientka (1985), ex-officio; Cecil Rousseau (1985-87).

IMO Training Session: Cecil Rousseau, Director (1985); Gregg Patrino, Assistant Director (1985).

Committee on Placement Examinations:

John W. Kenelly, Chairman (1985); Linda H. Boyd (1984-86); Judith N. Cederberg (1985-87); John G. Harvey (1984-86); Mary McCammon (1985-87); Billy E. Rhoades (1982-85).

Committee on Publications:

Alan C. Tucker, Chairman (1982-85); Donald J. Albers (1985); Duane W. Bailey (1984-86); Charles A. Cable (1982-85); James P. Crawford (1984-86); Ross L. Finney (1980-85); Leonard Gillman (1983-87), ex-officio; Paul R. Halmos (1982-86), ex-officio; Pete Hayslett (1985-87); John Karlof (1982-85); William F. Lucas (1982-87); Donald J. McCarthy (1984-86); Warren Page

(1985-88), ex-officio; Doris Schattschneider (1981-85), ex-officio.

Subcommittee on Carl B. Allendoerfer Awards: JoAnne Growney, Chairman (1985); Underwood Dudley (1985-87); Doris Schattschneider (1982-85), ex-officio; Marjorie Senecal (1986).

Subcommittee on Basic Library Lists: Deborah T. Haimo (1983-86); William F. Lucas (1982-85).

Subcommittee on Carus Monographs: Duane Bailey, Chairman (1985-86); Pete Hayslett (1985-87); John Karlof (1982-85).

Subcommittee on Dolciani Mathematical Expositions: Joseph Malkevitch, Chairman (1981-87); Donald J. McCarthy (1983-86); Donald B. Small (1982-85).

Subcommittee on Lester R. Ford Awards: Richard S. Millman, Chairman (1985); Paul R. Halmos (1983-86), ex-officio; Robert Osserman (1984-86); Stephen E. Puckette (1985-87).

Subcommittee on MAA Notes: Alan C. Tucker, Chairman (1982-85); Charles A. Cable (1982-86); William F. Lucas (1982-85).

Subcommittee on MAA Studies in Mathematics: Alan C. Tucker, Chairman (1980-85); James P. Crawford (1984-86); William F. Lucas (1985-87).

Subcommittee on New Mathematical Library: William G. Chinn, Chairman (1982-85); Donald J. Albers (1985); Basil Gordon (1980-85); Anneli Lax, ex-officio; Max M. Schiffer (1979-85).

Subcommittee on George Polya Awards: Larry A. Curnutt, Chairman (1982-85); Donald J. Albers (1982-87); Patrick Boyle (1984-86); Warren Page (1985-88), ex-officio.

Committee on Articulation:

Billy E. Rhoades, Chairman (1982-85); Philip C. Curtis, Jr. (1982-85); Ann D. Holley (1982-85); Chancey O. Jones (1982-85); Joan P. Leitzel (1982-85); Vincent O'Connor (1982-85); Barbara Wickless (1982-85).

Committee on Minicourses:

John O. Riedl, Chairman (1982-87); Sol Garfunkel (1984-86); Frederick Hoffman (1982-87); Warren Page (1982-85); Doris Schattschneider (1984-85); David A. Smith (1984-86).

Committee on Secondary School Lectures:

Henry Gore, Chairman (1982-85); Jane M. Day (1984-86); Allen H. Holmes (1985-87); John M. Jobe (1981-86); Amy C. King (1982-85); Gary J. Sherman (1982-85); David L. Skoug (1982-85); Donald B. Small, Advisor (1979-85).

Committee on Sections:

David W. Ballew, Chairman (1981-87); Yousef Alavi (1984-86), ex-officio; Sylvan Burgstahler (1984-86); Barbara T. Fairies (1982-85); Glen E. Johnston (1985); Norman F. Lindquist (1985-86); John D. Neff (1985-87); John M. Smith (1985-86); Alfred B. Willcox, ex-officio.

Public Information Panel: Yousef Alavi, Chair-

man (1984-86); James C. Bradford (1984-86); Peter Hilton (1984-85); James R. Leitzel (1984-87); Jean J. Pedersen (1984-85); Marcia P. Sward, ex-officio.

Committee on Special Funds of the Association:

Lida K. Barrett, Chairman (1981-86); Leonard Gillman (1980-87), ex-officio; John M. Jobe (1982-87); Eileen L. Poiani (1982-87); G.B. Price (1985-86); David P. Roselle (1985-88); Richard M. Schori (1982-87).

Committee on the Greater MAA Fund:

Leonard Gillman, ex officio, Chairman; Ronald Davis, ex officio; Lida Barrett, ex officio; Ivan Niven, ex officio.

Committee on the Award for Distinguished Service to Mathematics:

Peter J. Hilton, Chairman (1985); Henry L. Alder (1984-86); Anneli Lax (1985-87).

Committee on the Chauvenet Prize:

Peter J. Hilton, Chairman (1985); Theodore W. Gamelin (1985-87); Lawrence A. Zalcman (1984-86).

Committee on the MAA Book Prize:

Doris Schattschneider, Chairman (1985); J.A. Seebach (1984-86); Gary J. Sherman (1985-87).

Committee on the Putnam Prize Competition:

Leonard F. Klosinski, Director (1980-86); Bruce Reznick, Chairman (1985); Gerald L. Alexander-son (1983-86); Loren C. Larson, Advisor (1984-86); Richard P. Stanley (1984-86); Harold M. Stark (1985-87).

Committee on the Teaching of Undergraduate Mathematics (CTUM):

Alan H. Schoenfeld, Chairman (1982-85); Donald W. Bushaw (1980-85); Gloria F. Gilmer (1981-86); Bonnie Gold (1985-87); Christopher Nevison (1984-86); Jean J. Pedersen (1984-86); Peter Ross (1985-87); Martha J. Siegel (1981-86).

CTUM-CCIME Panel on Computers and Technology in Mathematics Instruction: Ronald H. Wenger, Chairman; Dorothy Derringer; Gloria Gilmer; Christopher Nevison; Gerald Porter; David I. Schneider; J.A. Seebach; Martha J. Siegel; David Smith.

CTUM Panel on the Evaluation of Teaching: Donald W. Bushaw, Chairman; Robert B. Ash; Susanna S. Epp; Robert H. McDowell; Jean J. Pedersen; Arnold K. Pizer; James W. Vick.

CTUM Panel on Teaching Assistants and Part-Time Instructors: Bettye Anne Case, Chairman; Felix E. Browder; Wendell Fleming; John Philip Huneke; David Kraines; Alan H. Schoenfeld, ex-officio.

Committee on Two-Year Colleges (CTYC):

Ann E. Watkins, Chairman (1985-86); Donald J. Albers (1984-86); James J. Baldwin (1984-86); Bettye Anne Case (1985-88); Wade Ellis, Jr.



Ad Hoc Committee to Review the Visiting Lecturer Program:

John D. Neff, Chairman (1985-86); Lida K. Barrett (1985-86); John Bradburn (1985-86); Theodore S. Chihara (1985-86); William F. Lucas (1985-86).

Committee on Election Procedures:

Richard D. Anderson, Chairman (1984-86); Henry L. Alder (1984-86); Henry O. Pollak (1984-86).

Ad Hoc Committee on Summer Meetings:

Kenneth A. Ross, Chairman; Donald J. Albers; Lynn A. Steen; Marcia Sward; Alfred B. Willcox.

MAA Program Committee for Laramie Meeting:

Kenneth I. Gross, Chairman; David W. Ballew; Robert E. Gaines; A. Duane Porter.

Joint AMS-MAA Committee for Laramie Meeting:

George E. Andrews, Chairman (MAA); Jeanne L. Agnew (MAA); Paul F. Baum (AMS); William P. Ziemer (AMS).

MAA Program Committee for New Orleans Meeting:

Jerome A. Goldstein, Chairman; Garrett J. Etgen; O. Carruth McGehee; John L. Tilley.

Joint AMS-MAA Committee for New Orleans Meeting:

William C. Waterhouse, Chairman (AMS); George E. Andrews (MAA); Judith V. Grabiner (MAA); W. Gilbert Strang (AMS).

Joint Committees

Joint AMS-MAA-SIAM Committee on Employment Opportunities: (Terms expire October 31)

Patrick Hagan, Chairman (1985, SIAM); Wilfred E. Barnes (1985-87, MAA); Richard E. Ewing (1985-86, SIAM); Calvin T. Long (1985-86, MAA); John W. Petro (1985, AMS); Donald C. Rung (1985-87, AMS).

Joint MAA-ACM Committee on Retraining for Computer Science:

Donald L. Kreider, Chairman; Susan J. Devlin (MAA); Patrick Goldberg (ACM); Zaven Karian (MAA); Anthony Ralston (ACM); Olaf Stakelberg (ACM).

Joint Committee on Women in The Mathematical Sciences:

Carole B. LaCampagne, Chairman (1985-86); Nancy Angle (1985, NCTM); Raymond G. Ayoub (1985-86, AMS); Susan J. Devlin (ASA); Marjorie G. Hahn (IMS); Gloria C. Hewitt (1985-86, MAA); Julie Knight (1985-86, AMS); Betty K. Lichtenberg (1985-87, NCTM); Dianne P. O'Leary (1985, SIAM); Ingram Olkin (IMS); Katherine L. Pedersen (1985, NCTM); Linda Petzold (1985-86, SIAM); Judith Roitman (1985-86, AMS); Alice T. Schafer (1985-86, MAA); Elisabeth L. Scott (IMS).

AMS-MAA Joint Meetings Committee:

William J. LeVeque, AMS; Everett Pitcher, AMS;

(1985-88); Ann D. Holley (1982-87); Charles David Miller (1985-87); Warren Page (1982-86), ex-officio; Stephen B. Rodi (1985-86); Jean B. Smith (1982-85); Larry Trivieri (1985-87).

Committee on the Undergraduate Program in Mathematics (CUPM):

Jerome A. Goldstein, Chairman (1983-87); Donald J. Albers (1984-86); Gerald L. Alexanderson (1980-85); Donald W. Bushaw (1982-85); Bettye Anne Case (1982-87); Philip C. Curtis, Jr. (1984-86); Kenneth I. Gross (1985-87); Stephen B. Maurer (1985-86); Mary A. Norton (1982-85); Billy E. Rhoades (1981-86); Alan H. Schoenfeld (1982-85); Lynn A. Steen (1985-86), ex-officio; W. Gilbert Strang (1985-87).

Joint CUPM-CCIME Panel on the Curricular Aspects of Computers in the Classroom: Carl Leinbach, Chairman; Sheldon P. Gordon; John M. Hosack; F. David Lesley; Stephen B. Maurer; Gerald Porter; J.A. Seebach.

CUPM Panel on the Continuing Mathematical Education of Teachers (COMET): Calvin T. Long, Co-Chairman; Bruce E. Meserve, Co-Chairman; Henry L. Alder; John A. Dossey; Marjorie M. Enneking; Richard K. Guy; Katherine P. Layton; Mary Ann Roberts Norton; Alan R. Osborne.

Joint CUPM-CTUM Panel on Service Courses: Donald W. Bushaw, Chairman; David W. Ballew; Jerome A. Goldstein; Martha J. Siegel; Maynard D. Thompson; James W. Vick.

Joint CUPM-CTUM-AMATYC Panel on the Curriculum at Two Year Colleges: Ronald Davis, Chairman; Geoffrey Akst; Donald J. Albers; Richard D. Anderson; John Bradburn; Bettye Anne Case; Larry Curnutt; Dale Ewen; Sheldon Gordon; Karl Smith.

Joint CUPM-CTUM-CTYC Panel on Remediation: Gloria F. Gilmer, Chairman; Donald J. Albers; Gerald L. Alexanderson; Carole Bauer; William Drezdson; Eleanor Green Jones; John G. Harvey; Miriam R. Hecht; Peter Hilton; Anneli Lax; Jean J. Pedersen.

CUPM Panel on Calculus Articulation: Donald Small, Chairman; Gordon Bushaw; John H. Hodges; Donald Nutter; Ronald Schnackenberg; Donald Sherbert; Barbara Stott.

Joint MAA-ACM-ASEE Panel on Discrete Mathematics in the First Two Years: Martha J. Siegel, Chairman; Donald Bushaw; Jerome Goldstein; Anthony Ralston; Alfis T. Berztiss (ACM); Gerald L. Isaacs (ACM); John Schmeelk (ASEE); Stephen B. Maurer.

Committee on Computers in Mathematics Education (CCIME):

Gerald J. Porter, Chairman (1985); Susan Devlin (1985-86); Donald L. Kreider (1985-86); L. Carl Leinbach (1985-86); F. David Lesley (1985); Alan Schoenfeld (1985-87); J.A. Seebach (1985-87); Ronald Wenger (1985).

Committee on Visiting Lecturers and Consultants:

Theodore S. Chihara, Chairman (1981-86); Vivian Y. Kraines (1981-86); Jon M. Laible (1980-85); Eugene R. Seebach (1979-87).

Kenneth A. Ross (1984-89), MAA; Alfred B. Willcox, MAA.

CEEB-MAA Joint Committee on Mutual Concerns:

John W. Kenelly, Co-Chairman (1985, CEEB); Kenneth A. Ross, Co-Chairman (1984-89, MAA); Henry L. Alder (1985, MAA); Chancey O. Jones (CEEB); Donald L. Kreider (CEEB); Lynn A. Steen (1985-86, MAA), ex-officio.

Joint Policy Board for Mathematics (JPBM):

I. Edward Block (SIAM), ex-officio; Hirsh G. Cohen (SIAM), ex-officio; Irving Kaplansky (AMS), ex-officio; William J. LeVeque (AMS), ex-officio; Kenneth A. Ross (MAA), ex-officio; Lynn A. Steen (MAA), ex-officio; Alfred B. Willcox (MAA), ex-officio.

JPBM Committee on the Status of the Profession:

Robert McKelvey, Chairman (SIAM); Lida K. Barrett (MAA); Wendell H. Fleming (SIAM); Murray Gerstenhaber (AMS); Louise Hay (AMS); Irwin Kra (member-at-large); Bernard L. Madison (MAA).

JPBM Committee for Mathematics Department Heads:

David Ballew, Chairman (1985-86); Donald Albers (1985); John Feroe (1985-87); John D. Fulton (1985-87); Paul D. Humke (1985-86); David J. Lutzer (1985-87); Bernard Madison (1985); Stephen B. Rodi (1985-86); Richard Schori (1985).

Joint AMS-MAA-SIAM Administrative Committee:

Everett Pitcher, Chairman (AMS); I. Edward Block (SIAM); Paul W. Davis (SIAM); Leonard Gillman (MAA); William J. LeVeque (AMS); Franklin P. Peterson (AMS); Kenneth A. Ross (MAA); Alfred B. Willcox (MAA).

JPBM Committee on Public Understanding of Mathematics:

Ronald L. Graham (AMS); Joseph B. Keller (SIAM); Lynn A. Steen (MAA).

Joint AMS-MAA-NAM Committee on Graduate Programs at Traditionally Black Institutions:

C.B. Bell (AMS); Lipman Bers (AMS); R. Creighton Buck (MAA); I.N. Herstein (MAA); Frank A. James (NAM); Ted Sykes (NAM).

Editorial Boards of the Association

American Mathematical Monthly (All terms expire December 31, 1986):

Editor: Paul R. Halmos.

Associate Editors: Gerald L. Alexanderson, Sabra S. Anderson, Sheldon Axler, Thomas F. Banchoff, Ralph P. Boas, David Borwein, W.W. Comfort, Hugh M.W. Edgar, Allan L. Edmonds, John H. Ewing, Richard K. Guy, Raoul Hailpern, Richard S. Millman, Dale H. Mugler, Seymour Schuster, J.A. Seebach, Lynn A. Steen, Mary R. Wardrop, Robert F. Wardrop, Herbert S. Wilf.

Mathematics Magazine (All terms expire December 31, 1985):

Editor: Doris Schattschneider.

Associate Editors: Edward J. Barbeau, John A. Beidler, Paul J. Campbell, Underwood Dudley, Gerald A. Edgar, Joseph A. Gallian, Judith V. Grabiner, Raoul Hailpern, Joseph Malkevitch, Pierre J. Malraison, William A. McWorter, Jr., Leroy F. Meyers, Jean J. Pedersen, Gordon Raibeck, Ian Richards, Eric S. Rosenthal, Dan Shapiro, David A. Smith.

The College Mathematics Journal (All terms expire December 31, 1988):

Editor: Warren Page.

Associate Editors: Jeanne Agnew, Gerald L. Alexanderson, Patrick J. Boyle, Donald W. Bushaw, Michael W. Chamberlain, Leo Chosid, Josephine Edwards, Gino T. Fala, Stanley Friedlander, Robert M. Geist, Samuel A. Greenspan, Erwin Just, James J. Kaput, Alan Mackay, Peter L. Renz, Billie A. Rice, Ann E. Watkins, David H. Wheeler, Milton E. Winger.

Newsletter Editorial Committee:

Ronald M. Davis, Chairman (1981-85); Yousef Alavi (1981-86), ex-officio; Donald J. Albers, Associate Editor (1985); Philip M. Cheifetz (1981-86); William Chinn, Associate Editor (1981-85); Joseph A. Gallian (1981-86); Katherine P. Layton (1981-86); Stephen B. Maurer, Associate Editor (1983-86); John D. Neff (1985-87); Eileen L. Poiani (1981-85); Kenneth A. Ross (1984-89), ex-officio; Marcia Sward, ex-officio; Alan C. Tucker (1985); Paul Zorn, (1985-87).

Representatives of the Association

To Sections of AAAS: Section A: A.B. Willcox (1984-86); Section Q: A.B. Willcox (1984-86); Section U: A.B. Willcox (1984-86); Section X: A.B. Willcox (1984-86).

On the UMAP Editorial Board: Alphonse Buccino (1985-87); Courtney S. Coleman (1985-87); Peter A. Lindstrom (1985-87); Michael Olinick (1985-87).

On the COMAP Consortium Council: Alphonse Buccino (1985-87).

To the Conference Board of the Mathematical Sciences (CBMS): Lynn A. Steen (1985-86).

To the Council of Scientific Society Presidents: Lynn A. Steen (1985-86), ex-officio.

On the Discipline Committee for Mathematics of CEEB: Donald L. Kreider.

On the Governing Council of Mu Alpha Theta: Katherine P. Layton (1985-87).

MAA Representative on AMS Science Policy Committee: Lynn A. Steen (1985-86).

On the U.S. Commission on Mathematical Instruction (USCMI): Warren Page (1984-85); Eileen L. Poiani (1981-86).

On the April 1986 NCTM Program Committee: Ronald M. Davis.