

THE SUMMER MEETING IN HANOVER

The seventy-seventh summer meeting of the American Mathematical Society was held in Hanover, New Hampshire, from Tuesday, August 29, through Friday, September 1, 1972. All sessions of the meeting took place on the campus of Dartmouth College. There were 1,270 registrants, including 949 members of the Society. This meeting was held in conjunction with meetings of the Institute of Mathematical Statistics, the Mathematical Association of America, and Pi Mu Epsilon.

There were two series of Colloquium Lectures, each consisting of four lectures. Professor Stephen Smale of the University of California, Berkeley, presented a series of Colloquium Lectures entitled *Applications of global analysis to biology, economics, electrical circuits, and celestial mechanics*; he was introduced at his four lectures by Professors Nathan Jacobson, Richard S. Palais, Richard D. Anderson, and Harry Furstenberg. Professor John T. Tate of Harvard University presented a series of Colloquium Lectures entitled *The arithmetic of elliptic curves*; he was introduced at his four lectures by Professors Nathan Jacobson, William J. LeVeque, Olga Taussky Todd, and William E. Jenner.

By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there were nine hour addresses. Professor George E. Andrews of Pennsylvania State University spoke on *A general theory of identities of the Rogers–Ramanujan type*; he was introduced by Professor Henry L. Adler. Professor R. C. Bose of Colorado State University spoke on *Representation of non-Desarguesian projective planes in projective hyperspace*; he was introduced by Professor Bertram Yood. Professor Glen E. Bredon of Rutgers University spoke on *Locally smooth actions on manifolds*; he was introduced by Professor Martin A. Arkowitz. Professor Chuan C. Hsiung of Lehigh University spoke on *Submanifolds of Riemannian manifolds*; he was introduced by Professor Carl B. Allendoerfer. Professor Joachim Lambek of McGill University spoke on *Noncommutative localization*; he was introduced by Professor Leonard Gillman. Professor Seymour Sherman of Indiana University spoke on *Monotonicity and magnetism*; he was introduced by Dr. Alan J. Goldman. Professor Michael Shub of the University of California, Santa Cruz, spoke on *Dynamical systems, filtrations, and entropy*; he was introduced by Professor Kuo-Tsai Chen. Professor Charles C. Sims of Rutgers University spoke on *The construction of large permutation groups*; he was introduced by Professor Malcolm F. Smiley. Professor Herbert S. Wilf of the University of Pennsylvania spoke on *Boundary values in the four color*

problem; he was introduced by Professor Eugene Isaacson.

By invitation of the above committee, two special sessions of selected twenty-minute papers were held. Professor Joseph B. Keller of the Courant Institute of Mathematical Sciences, New York University, arranged a session on Asymptotic and Perturbation Methods in Fluid Mechanics and Wave Propagation; speakers were Mark Ablowitz, Andrew J. Callegari, W. Stephen Childress, Pao-Liu Chow, Frank Hoppensteadt, Martin D. Kruskal, Reese T. Prosser, and M. C. Shen. Professor Gerald E. Sacks of the Massachusetts Institute of Technology arranged a session on Recursion Theory; speakers were Harvey Friedman, Alexander S. Kechris, Eugene M. Kleinberg, Manuel Lerman, Anil Nerode, Richard Platek, Robert W. Robinson, and Robert I. Soare.

There were thirty sessions for the presentation of contributed ten-minute papers, chaired by Professors Charles E. Aull, Kenneth P. Bogart, Edward M. Brown, James S. Byrnes, Willie R. Callahan, Francis W. Carroll, David K. Cohoon, Edward D. Davis, Neil A. Eklund, Dagmar R. Henney, Guy T. Hogan, Lawrence S. Husch, Ronald B. Kirk, Drs. Benjamin Lepson, Mark M. Lotkin, Professors Ernest G. Manes, Donald J. McCarthy, Peter A. McCoy, B. Arthur Miller, Charles H. Randall, James W. Richards, Nina M. Roy, James F. Smith, Linda Ruth Sons, Edgar L. Stout, James J. Tattersall, Dr. Alvin I. Thaler, Professors Jerry E. Vaughan, and Howard H. Wicke.

The Society's Committee on Employment and Educational Policy (William L. Duren, Jr., chairman; Richard D. Anderson, Michael Artin, John W. Jewett, Richard S. Palais, Gail S. Young) organized a public panel discussion on factors relating to the job market and their effect on the mathematics community. Panel members were Richard D. Anderson and William L. Duren who served as moderator.

The Arrangements Committee for the meeting consisted of Kenneth I. Gross, chairman, Henry L. Alder (ex officio), Mrs. Sandi J. Garland, Walter H. Gottschalk (ex officio), Reese T. Prosser, William E. Slesnick, Gordon L. Walker (ex officio), and H. D. Weed.

The Council met in the Hartman Rehearsal Hall of the Hopkins Center at 5:20 P.M. on August 29, 1972, with President Jacobson in the chair.

The Council received reports of final action on a variety of matters delegated with power to the Executive Committee.

The following 218 individuals have been elected to ordinary membership in the Society:

Abdelmalek, Nabih N., National Research Council, Ottawa, Ontario, Canada
Addes, Alvin D., Brooklyn Polytech Institute
Ahlers, Carl W., Loyola University
Baas, Nils Andreas, University of Virginia
Babuska, Ivo, University of Maryland

Back, Allen H., University of California, Berkeley
Barrett, Johnny M., Texas Instruments, Dallas, Texas
Baslaw, Ronald S., New York University
Beck, O. Oscar, Florence State University
Beidler, John A., University of Scranton
Bennett, Gordon William, 3540 South West 97th, Seattle, Washington
Berger, Charles A., Yeshiva University, Belfer Graduate School
Bernard, Kathleen C., 335 3rd Street, 19 South, Clearwater, Florida
Beyl, F. Rudolf, University of Washington
Billig, Rory D., Allinson, Inc., Warwick, Rhode Island
Blum, Howard S., Digital Simulation Systems Inc., New York, New York
Boettler, James L., Talladega College
Bosch, William W., University of Northern Colorado
Brittin, Wesley E., University of Colorado
Broue, Michel, 16 Rue des Fosses St. Jacques, Paris 5, France
Brown, Marianne S., Dartmouth College
Buianouckas, Francis R., Bronx Community College
Bullard, A. Davant, University of Florida
Bulman-Fleming, Sydney D., Queen's University
Caldwell, Jack G., Jefferson State Jr. College
Cammack, L. A., Culver-Stockton College
Carlisle, Ronald L., Kennesaw Jr. College
Carlson, John W., Kansas State Teachers College
Carlson, Roger, University of Missouri-Kansas City
Carroll, Bruce John, University of Illinois
Carter, John Alton, U.S. Army, Ft. Bliss, Texas
Case, Bettye Anne Busbee, Palm Beach Atlantic College
Challifour, John L., Indiana University
Chen, Tsu-Yee, California State Polytechnic College
Cheng, Henry, New Mexico State University
Chmielewski, Margaret A., 12408 Parkhill Avenue, Cleveland, Ohio
Cohen, Simon, Brooklyn Polytech Institute
Comenetz, Michael, Brandeis University
Cooper, Barry, University of California, Berkeley
Coppotelli, Fred, Virginia Polytechnic Institute and State University
Costello, Thomas M., Raytheon, Bedford, Massachusetts
Crell, Carl C., Miami University, Oxford, Ohio
Cruse, Allan B., Emory University
Cullen, Frederic M., U.S. Air Force
Cummins, Catherine Ann, Auburn University
Cushman, Richard H., University of California, Santa Cruz
D'Amato, Leonard P., Stanislaw State College
Dale, Knut T., Distriktshogskolen, Telemark, Norway
Daniel, James W., University of Texas at Austin
Darko, Patrick William, Cornell University
DeFacio, Brian, University of Missouri, Columbia
DeKoninck, Jean-Marie, 1017 Avenue Belmont, Quebec, Quebec, Canada
Deleanu, Aristide, Syracuse University
De Luca, Aldo, Italian National Council for Research, Arco Felice, Italy
Dietz, David, Indiana University
Do, Phuoc B., California State College at Fullerton
Dubois, Jacques, Université de Sherbrooke
Dulmage, A. Lloyd, Brandon University
Earnley, Bruce Edward, Wayne State University
Eastman, Beatrice E., Fordham University
Ehrmann, Sister M. Cordia, Villanova University
Erbach, Amy Bouska, Duke University
Everson, Russell John, Rt 59, Tallman, New York
Falk, Daniel A., Vermont State Employees Association
Fiocck, Ray E., Case Western Reserve University
Ferebee, J. Brooks, 148 12th Street, Del Mar, California
Feser, Victor G., St. Louis University
Fischer, Arthur Elliot, University of California, Berkeley

Fong, Humphrey S., Bowling Green State University
Freund, Richard F., New York University
Fricke, Gerd H., Kent State University
Friedman, Nathan, University of Toronto
Frontz, David John, University of South Carolina
Fuks, Boris A., 13th Parkovaja 25, Apt. 52, Moscow (E-215), USSR
Gandulfo, Roberto Oscar, Washington University
Geller, Dennis Paul, State University of New York at Binghamton
Gerlinger, Wayne W., 701 Summit Avenue, Seattle, Washington
Goldware, Faye M., American Mathematical Society
Gonzalez-Figoeroa, Luisa E., University of Puerto Rico, Rio Piedras
Gordon, Yehoram, Louisiana State University
Gove, Ronald A., Department of Defense
Graham, Nancy Young, Bell Telephone Laboratories, Murray Hill, New Jersey
Gray, Brayton, University of Illinois, Chicago
Griffin, Joseph, Pennsylvania State University
Hagedorn, George A., Cornell University
Hamm, Robert C., Stevens Institute of Technology
Hancock, Ruth A., Virginia Highlands Community College
Hargrove, E. E., University of Alabama
Harnik, Victor, University of Southern California
Hartka, Joseph E., Clarkson College of Technology
Heard, Melvin L., University of Illinois at Chicago Circle
Herchenroder, Barry E., Coastal Engineering Research Center, Washington, D.C.
Hering, Roger H., University of Wisconsin, Madison
Hoagland, Gordon W., Ricks College
Hoard, Robert E., Rice University
House, Gail M., University of California at Davis
Huff, George A., Kansas State University
Hughes, Charles E., National Bureau of Standards, Washington, D.C.
Hunter, Christopher, Florida State University
Hyams, Edward M., University of Virginia
James, David Alan, Wayne State University
Janik, Jacqueline C., Marquette University
Jarquin Aburto, Roberto Emilio, University of Nicaragua
Johnson, Kenneth L., University of South Alabama
Jones, Douglas Hugh, Florida State University
Jones, Louise H., University of Delaware
Kalka, Edna, New York University–Courant Institute
Kartsatos, Athanasios G., University of South Florida
Karvellas, Paul H., University of Houston
Keldys, Ljudmila, Steklov Math. Institute, Moscow USSR
Kellum, Kenneth R., Miles College
Kennedy, Judy A., Auburn University
Kenner, Lee L., Rensselaer Polytechnic Institute
Kern, Virginia M., St. Louis University
Khuri, Andre Ilias, Beirut College for Women
Knutson, Andrea Allen, 438 W. 116 Street, Apt. 54, New York, New York
Kosniowski, Czes, State University of New York at Stony Brook
Krnanova, Viera, Columbia University
Krein, Mark G.,
Kumar, Satindar, University of Wisconsin–Milwaukee
Lambert, Richard W., Mt. Hood Community College
Lange, Charles G., University of California at Los Angeles
Lange, Ridgley, University of Illinois
Lawrence, Scott, 1631 Madison Street, Madison, Wisconsin
Lee, Jong P., Ohio State University
Leschen, John G., Union College
Levine, Alan, Mitre Corporation
Lorimer, Joseph Wilson, Loyola of Montreal
Lowry, Philip M., Rockhurst College
Mackiw, George B., Loyola College
McCarthy, Mary Anne, Rice University

McCloy, Jerold J., Eastern Nazarene College
McDill, Jean Marie, Northern Virginia Community College
McKelvy, Gary E., Rt. #2, Greenville, Tennessee
McLaughlin, Joyce R., Rensselaer Polytechnic Institute
McLean, T. Bruce, Madison College
McMahon, Douglas C., Case Western Reserve University
Maharos, Sombat, 423-3 Mahachaidamri Road, Maharakarm, Thailand
Maron, Melvin J., University of Louisville
Masiello, Charles D., Pace College
Meluzzi, Carlo, Italsiel, Rome, Italy
Menikoff, S., University of California, Irvine
Mensch, Warren L., Cornell Aeronautical Laboratory, Buffalo, New York
Meyer, Gerard G. L., University of Southern California
Michaud, Richard O., Simmons College
Miller, Ann Kathryn, 216 Trailtop Court, Chesterfield, Missouri
Miller, Eldon L., University of Mississippi
Mirabal, Ramon A., McMaster University
Mocanu, Petru T., University of Cluj, Cluj, Romania
Moore, Michael H., University of Florida
Morley, Lanny C., Northeast Missouri State College
Nwankpa, Sonde N., Tuskegee Institute
Olson, William H., McGill University
Ostling, Edward G., Hofstra University
O'Steen, David N., University of Houston
Ozizmir, Erument, Richmond College of City University of New York
Parker, Phillip E., 1909 Tulane Avenue, Little Rock, Arkansas
Parsons, Charles D., Columbia University
Pavlicek, Walter J., St. Louis University
Penney, Richard C., Purdue University
Petridis, Nicholas C., Eastern Illinois University
Phelps, Richard M., Adelphi University
Pond, Ralph Gregory, University of Texas at Austin
Pranger, Walter, DePaul University
Putter, Paul S., Reed College
Rascon, Octavio A., Ciudad University, Mexico, Mexico
Rauch, Steven W., University of New Brunswick
Redihan, Stephen G., U.S. Coast Guard
Ringel, Claus Michael, Carleton University
Robbins, Neville, Marymount College
Rogak, Earl D., University of Victoria
Ross, Sharon C., Emory University
Ryba, Vincent J., Naval Ship Research and Development Center, Washington, D.C.
Sawey, Bennett Charles, Southern University
Sayrafizadeh, Mahmoud, Rutgers University
Schaefer, James A., Rhode Island College
Schleicher, Max, College Misericordia
Senter, Herman F., North Carolina State University
Selby, Michael A., University of Windsor
Seydel, Robert E., Jr., University of Iowa
Sharp, Thomas J., West Georgia College
Simis, Aron, Queen's University
Simon, Imre, University of Sao Paulo
Smith, Buddy Lee, P.O. Box 18, Kingsville, Texas
Smith, John Julius, 185 E. Walnut, Apt. A-1, Philadelphia, Pennsylvania
Sobolev, Serguei L., Academy of Science of the USSR, Novosibirsk, USSR
Stein, Alan H., Queens College, City University of New York
Stiles, Joseph L., Tulane University
Stockton, Ray E., Stephens College
Suger, Jose Eduardo, University of Texas at Austin
Sweet, Melvin M., University of Maryland
Sweigart, James R., Elizabethtown College
Taylor, William W., U.S. Air Force Academy
Tenney, Richard Lee, Cornell University

Townsend, Jerry S., Augusta College
 Troll, Karl Heinz, Waldparkstr 8, Mannheim, West Germany
 Troyer, Stephanie F., University of Hartford
 Tulczyjew, W. M., University of Calgary
 Ummel, Deborah J., 2616 N. Frederick, Apt. 102, Milwaukee, Wisconsin
 Wagstaff, Robert L., Jr., Kendall Company, Charlotte, North Carolina
 Wani, Jagannath K., University of Calgary
 Watford, Luck J., Troy State University
 Ward, James Norman, University of Sydney
 Weaver, George E., Bryn Mawr College
 Wigner, David W., University of California, Berkeley
 Wilson, Richard G., University of Puerto Rico, Mayaguez
 Winkel, Brian J., Albion College
 Witsenhausen, Hans S., Bell Telephone Laboratories, Murray Hill, New Jersey
 Witte, Franklin P., University of Florida
 Wood, David H., Naval Underwater Systems Center, New London, Connecticut
 Yardley, Serena S., University of Illinois, Urbana
 Yavin, Yaakov, University of Negev
 Yee, Lone-Young, Washington University
 Yeung, Henderson C. H., Fresno State College
 Yin, Barbara H., Occidental College
 Zagustin, Elena, California State College at Long Beach
 Zamir, Shmuel, University of California, Los Angeles
 Zarnett, Gerald D., Ontario Research Foundation

The following persons have been elected to membership according to various reciprocity agreements:

Allahabad Mathematical Society: Siddiqui, Abul H.
 Australian Mathematical Society: Roger William Eyland, John Michael Mack, Neil C. Powers.
 Deutsche Mathematiker—Vereinigung e.V.: Egon Boerger, Ernst Gorlich, Rudolf J. G. Halin, Ulrich Krengel, Kurt Kutzler, Stephen Ruscheweyh, Dietrich F. K. Suter.
 Indian Mathematical Society: Sahib Ram Mandan, Ashok Shimpi.
 London Mathematical Society: Jawaid H. Rizvi, Klaus F. Roth, Terence Paul Speed.
 The Mathematical Society of Japan: Masatoshi Ikeda, Yukio Matsumoto, Shigeyuki Morita, Yatsuka Nakamura, Fumio Tanimoto, Yoko Tao, Kenji Ueno, Hideo Yokoi.
 Osterreichische Mathematische Gessellschaft: Heribert Fieber.
 Polskie Towarzystwo Matematyczne: Mieczyslaw Altman.
 Real Sociedad Matemática Española: Roman Riaza.
 Societe Mathematique de Belgique: Francis Didier Lowenthal, Jean F. Schmets, Jean M. Van Buggenhaut.
 Societe Mathematique de France: M. S. Baouendi, Michel Broue, Jean G. Dhombres, Pierre Leroux.
 Sociedade de Matemática de São Paulo: Antonio F. Ize.
 Unión Matemática Argentina: Nelida R. Winzar.
 Unione Matematica Italiana: Marco Biroli, Stere Ianus.
 Wiskundig Genootschap: Jozef van der Slot.

The following persons have been elected to membership upon nomination of institutional members as indicated:

Adelphi University: Richard J. Silvestri.
 Amherst College: Robert R. Bruner, David B. Garlan, Tom Hudson.
 Arizona State University: William Cashman, Dan Christian, Peter Gadwa, Kenneth Neves, Jean Nisbet, John Pellegrin, Stephen Stuckwisch, Don Utter, Martin Zimmerman.
 Armstrong State College: Donald James Braffitt, Michael A. Eckhoff, Susan Darnell Kennedy.
 Auburn University: I. Fennell Burns, Joe Kenneth Humphreys.
 Baylor University: Terry Allen Goodman.
 Berea College: Randall T. Dill, Dennis J. Strickler.

- Boise State College: Charles Gudgus, Yozo Takeda.
 Boston College: Harvey Robert Margolis.
 Bowdoin College: George H. Butcher III, Frederic W. Lambie.
 Bowling Green State University: James D. Franchello, Robert D. Jennings, Lynn J. Olson.
 Brandeis University: Edward Bierstone, Mircea I. Craioveanu, Louis P. D'Angelo, Jr., Adedeji Adedola Lufadeju, Hovacio Tapia-Recillas, Paolo Valabrega, Vo Van Tan.
 Brandon University: Ernest A. Birkinshaw, Donald E. Eastman, L. Macmillan.
 Brooklyn Polytech Institute: Siddhartha P. Chand, Nancy R. Hall, Eva Helfman, Charles J. Hinkaty.
 Brown University: Patrick D. Bourke, Ching-Hui Chen, Kenneth W. Faig, Jr., Leslie V. Foster, Ronald Vincent Giusti, Milton Luiz Kelmanson, Philip T. Lavin, Wen-Te Kobe Lin, Alan R. Mitchell, Sheela Padhi, Gustavo Menzala Perla, Richard A. Silkowski, John C. Thacker, Teresa Tsukazan, David R. Wakeman, James Li-Ming Wang, Don R. Wilhelmsen.
 California Institute of Technology: Charalambos Aliprantis, Dan R. Berker, Paul G. Clapham, William K. Delaney, Daniel E. Erickson, Kirby W. Fong, Tav Heistand, Robert M. Kaufman, James P. Kenner, Melvin John Knight, Clement W. H. Lam, Christopher Landauer, Geoffrey M. Lee, Franklin Tai-cheung Luk, Howard Cary Morris, James B. Nation, X. X. Newhall, Joe Pendergast, Aubrey B. Poore, Jr., Neil J. Risch, Jeffrey A. Ross, Daniel J. Rudolph, Elias S. Shiu, David J. Smith, Raymond R. Watkins.
 California State College at Fullerton: Richard D. Kilzer, John B. Manderscheid, Edward A. Overman.
 California State College at Long Beach: Arthur J. Cooke, Carl Maltz.
 California State College at Los Angeles: Lillian S. Kimura, Gordon L. Nipp.
 California State Polytech College: Mary Ona Demitt, Duane J. Kriesel, Robert N. Reber.
 Calvin College: Steven W. Haan, David Alan Van Baak, Allen D. Van Kampen.
 Carleton University: C. Cooper, Miroslav Grmela, William G. Mulvihill, Tao-Cheng Yit.
 Carnegie-Mellon University: Charles G. Bird, Robert W. Button, George M. Hanna, Robert W. Smith, Russell C. Walker, Donald R. Williamson.
 Central Michigan University: Albert P. Resetar.
 City University of New York, Brooklyn College: Jonah Adelman, Jacob Finestone, Stanley Krasner, Isaac Mashitz, Solomon Weinberger.
 City University of New York, Herbert H. Lehman College: Herbert M. Applebaum, Carl Cooley.
 City University of New York, John Jay College: Adi Billimoria, Richard G. Lefkon.
 City University of New York, Queens College: Donatus Uzodinma Anyanwu.
 Clarion State College: Keith Aaron, (Mrs.) Cheryl Stark Mortland, David Thompson.
 Clark University: Margaret W. Taft, Joseph A. Tanne.
 Clarkson College of Technology: Gopala M. V. Krishna.
 Clemson University: Ernest L. Campbell, William G. Frye, William L. Golightly, Jr., Gary Lee Cuthrie, Alexia B. Latimer, Antonio M. Lopez, Jr., Henry Arthur Pellerin, Glen H. Stark, William A. Strack, Hugh M. Williams.
 Cleveland State University: William D. Kunkin, Hendricus G. Loos.
 Colgate University: Susan L. Hoerner, John Price.
 College of the Holy Cross: Frank L. Capobianco, Richard H. Sady.
 College of William and Mary: William J. Bangs II, Norman E. Gibbs.
 Colorado State University: Robert L. Brandon, James W. Freeman, Richard S. Stevens, Otto N. Strand, Jan E. Wynn.
 Columbia University: Jozef Dodziuk, Albert Feuer, Akio Fujii, Martin Charles Golumbic, Marcelo Kupferwasser, Mark Hsi Yu.
 Columbus College: Steven James Robertson, Thomas L. Snelling, John W. Underdown.
 Concordia College: Roger J. Bjorgan, Nancy J. Farden.
 Cornell University: Subinoy Chakravarty, Rosa Lee Charles, Thomas C. Craven, Susan C. Geller, Elyahu Katz, Robert B. Lumbert, Leon Stagg Newman, Jr., Frank J. Oles, Theodore P. Panougiias, Jeffrey B. Remmel, Avery P. Solomon, Marco F. Suarez, David L. Tanny, Graham H. Tommer, Michael Venning, Stuart Sui-Sheng Wang, Angela Yu-Fen Yuen.
 Dalhousie University: Wade D. Cook, Hugh M. Davidson, Teck Cheong Lim.
 Dartmouth College: James M. Barry, Yang Hua, Sun-Wah Kiu, John R. Rasmussen, Stephen Jay Schiffman, Clinton W. Smullen III, Michael R. Vitale.
 Denison University: Gregory B. Hudak, Cynthia Ann Sherman.
 De Paul University: Robert J. Arscott, Mark R. Kammrath, Francesca Pieraceini.
 Drexel University: Allen E. Barnes, Steve Nelson, David W. Prather, Frederick J. Scott.

- Duke University: Mohammad H. Afghahi, Elizabeth H. Agnew, Elaine E. Alexander, Terrence Paul Bisson, Donald S. Burdick, Arthur Thomas Charlesworth, David L. Cozart, Frances Cheuarley Edmonds, William R. Gjertsen, G. Felda Hardyman, Randall M. King, Jo Ann Lutz, Theresa Phillips Vaughan, John F. Wade.
- Duquesne University: Thomas Hand.
- East Carolina University: Tennala A. Gross, Virginia G. McGrath.
- Eastern Kentucky University: Jerome H. LeVan, Peter E. Moore.
- Eastern Michigan University: Mohammad Rafiq.
- Eastern Montana College: S. S. Chitgopekar.
- East Texas State University: Archie D. Brock, Dale R. Bedgood.
- Emory University: Catherine C. Aust, Jack R. Pace.
- Fairfield University: Robert E. Bolgel, Brian Dunn.
- Fairleigh Dickinson University: Evelyn E. Gere, Charles R. Giardiana.
- Florida Presbyterian College: David L. Ritter.
- Florida State University: Lynn Carter, John E. Cruthirds, Theresa E. Edwards, Bruce Glastad, William S. McAliley, Wayne M. Pope, Lee R. Riess, Gary Smith, Janet L. Stoner, Richard B. Wand.
- Fordham University: R. Bruce Loatman.
- Franklin and Marshall College: Morris H. Barshinger, Jr., Alan S. Keller, Alan D. Peckham.
- George Mason College: Clark C. Miller, Patricia Jacobs Rizzo, John Joseph Walsh.
- Georgetown University: Mary Bradley, Eamon O'Reilly.
- George Washington University: George H. Berlin III, Chia C. Chang, Bao Ting Lerner, Robert Edward O'Brien, John R. Tucker.
- Georgia State University: James Pete Hoffman, Jr., James W. Mullis, Jr., Eks Eng-Kuo Shih.
- Georgia Tech: Laddie W. Rollins.
- Grambling College: V. R. G. Moorti, Willie James Wright.
- Gustavus Adolphus College: Jim D. Behm, Stuart R. Briggs, Sandra Lee Lund.
- Hardin-Simmons University: Anne B. Bentley, Mildred E. Hill.
- Harvard University: Michael A. Buchner, Alan Candiotti, Joseph E. Carroll, James Norman Damon, Peter Forrest, Fred Kochman, L. Gaunce Lewis, Jerome F. Myers, Arthur Ogus, Henry C. Pinkham, Zenaida E. Ramos, Kenneth A. Ribet, Mary Elizabeth Schaps, Richie Weiss, Sandy L. Zabbell, Robert J. Zimmer.
- Hofstra University: Vito Faraci.
- Howard University: Thomas H. Lawson, Jr., Michael R. Mullen, Guttalu R. Viswanath.
- Idaho State University: Michael E. Bates, Charles D. Kosa, Paul B. Shimp.
- Illinois Institute of Technology: David M. Foley, Rodney H. Kosloski.
- Illinois State University: Chuk-Kwan Athene Choy, Ping-Yu H. Ho, Jacob E. Uhrich.
- Indiana University: Jose Barria-Sanchez, Joseph J. Bastian, Satish C. Bhatnagar, David E. Bindschadler, Mau-Hai Cheng, William L. Crawford, Gary W. Hasen, Tom Hudson, Novak Ivanovski, Samir K. Kar, Marcia Ellen Kubersky, Ferris E. McCormick, Janet Olexson McLeavey, Marsha Jean Meredith, Robert Laurens Moore, Thomas E. Ramsay, Jr., Donald D. Rogers, Russell A. Smucker, C. Edwin Spooner, William G. Stanford, Gail R. Walker, James P. Y. Wu, Youngjoo Yoon.
- Institute for Advanced Study: Benny D. Evans, Nigel J. Hitchin, Ryoshi Hotta, Shigeru Iitaka, Vijay Kumar Patodi, Juan-Josi M. Rivaud, Takuro Shintani, Akihiro Tsuchiya, H. E. Winkelnkemper.
- Iowa State University: Gregory M. Dotseth, Shau-Chung Hu, Cheng-Chi Huang, Kirby J. Keller, Jau-Nan Ling, Marvin C. Papenfuss.
- Johns Hopkins University: Haluk Ariturk, Chia-Chi Chiang, Larry W. Cox, Richard M. George, Ronald N. Goldman, Bertram M. Kestenbaum, John A. Lawrence, Jih-Min Shyr.
- Kansas State University: Chester C. John, Paula A. Kemp, Cheryl D. Smith, Jan Van De Lune.
- Kent State University: Stephen Demko, Barbara T. Faires.
- Knox College: Harry M. Bonczkowski, Kenneth Smith, Doris Sharon Wilson.
- Lake Forest University: Robert Bergstein, Joseph Schymar.
- Lakehead University: Maurice W. Benson, Arthur H. C. Chan.
- Lehigh University: Neill H. Ackerman, Basil Atta Al-Hashimi, Maria Theresa F. Hermoso, Dale L. Landis, Timothy Ping Lo, Anthony P. McAndrew, Howard E. Sachar, Harry W. Soul, Walter D. Stangl, Douglas L. Thompson.
- Le Moyne College: Edwin F. Baumgartner.
- Long Island University: David M. Weingold.
- Louisiana State University: Thomas E. Byrd, John Ganci, Alban J. Roques, Dolores Richard Spikes.

- Louisiana State University in New Orleans: Salvatore J. Guccione, Jr., Theo Kintzonides, Carol Jensen Rychly.
- Louisiana Tech University: David T. Barwick, Thomas B. Hilburn, Daniel A. Hogan.
- Mankato State College: Kenneth F. Dille, Guy M. Formichella, Kim Lapakko.
- Marquette University: Bin Lin, Michael R. Ziegler.
- Marshall University: Darwin P. Bromley, Roy A. Hepner, Jeffrey Lake Smith.
- Massachusetts Institute of Technology: Martin S. Altschul, Arnold I. Barnett, Irwin Blau, Richard J. Bonneau, Joseph Cheng, Carlos Augusto Di Prisco, William G. Dwyer, Samuel Aaron Elias, Stuart I. Feldman, Jerry Gechter, Evarist Gine-Masdeu, Arthur L. Goldhammer, Jerrold W. Grossman, William W. Hager, Paul Peter Hermann, Kenton D. Juhlin, Ruben Klein, Jaques Labelle, Jeffrey C. Lagarias, Robert F. Lax, Daniel S. Levine, Carlos Marin-Delgado, Clement A. W. McCalla, Ralph William Metcalfe, Andrew M. Odlyzko, Daniel E. Putnam, Steven Robbins, Nancy K. Stanton, Gerald Jay Sussman, Douglas A. Szper, Stephen M. Tanny, Mitchell Wand, David Y. Y. Yun, Michael Zuker.
- McGill University: Bruce Ballinger, Patrick D'Arcy, John Georgoudes, Robert Mac Master.
- McMaster University: Vincent Buonomano, Christopher R. Howlett, Shaukai A. Warsi.
- Memphis State University: Cecil C. Rousseau, Harold W. Stephens, Everett E. Stevenson.
- Michigan State University: Allen L. Bertelsen, George F. Corliss, Kenneth R. Fruit, Kenneth P. Goldberg, Coreen L. Mett, Adolghassem Midmee, Melvin A. Nyman, Gerald L. Rains, Richard A. Rogers.
- Middlebury College: Robert Alan Goodsell, Frederick C. Tinsley.
- Millsaps College: Mark A. Bebensee, Marsha Ann Caves, Rebecca Watson Tillman.
- Millersville State College: Donald A. Eidam, Joseph A. Meier, Clark E. Taylor.
- Mississippi State University: Alney A. Baham.
- Monmouth College: Michael F. Armstrong, Robert W. Fuessle, Virginia A. Plunkett.
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 Indiana State University, Terre Haute, Indiana
 Indiana University Northwest, Gary, Indiana
 Marshall University, Huntington, West Virginia
 Mercer University, Macon, Georgia
 Missouri Southern College, Joplin, Missouri
 Pembroke State University, Pembroke, North Carolina
 Purdue University, Calumet Campus, Hammond, Indiana
 Sacred Heart University, Bridgeport, Connecticut
 Seton Hall University, South Orange, New Jersey
 Shippensburg State College, Shippensburg, Pennsylvania
 Slippery Rock State College, Slippery Rock, Pennsylvania
 Southwest Missouri State College, Springfield, Missouri
 State College of Arkansas, Conway, Arkansas
 Stetson University, Deland, Florida
 University of North Carolina at Asheville, Asheville, North Carolina
 University of Tennessee at Chattanooga, Chattanooga, Tennessee
 University of Wisconsin, Superior, Wisconsin
 Ursinus College, Collegeville, Pennsylvania
 Wheaton College, Norton, Massachusetts

The following persons accepted invitations to give hour addresses at the times and places noted:

George E. Andrews	Hanover	August 1972
R. C. Bose	Hanover	August 1972
Seymour Sherman	Hanover	August 1972
Daniel B. Ray	Providence	October 1972

Marc Rieffel	La Jolla	November 1972
I. Satake	La Jolla	November 1972
James K. Brooks	Chapel Hill	November 1972
Robert Gilmer	Chapel Hill	November 1972
Mary-Elizabeth Hamstrom	Cleveland	November 1972
Calvin Putnam	Cleveland	November 1972
William K. Allard	Dallas	January 1973
Lester E. Dubins	Dallas	January 1973
Michael E. Fisher	Dallas	January 1973
Samuel Gitler	Dallas	January 1973
H. B. Mann	Dallas	January 1973
Barbara L. Osofsky	Dallas	January 1973
Alan Weinstein	San Francisco	January 1974

The following individuals represented the Society at various functions as noted:

- Roger S. Pinkham at the inauguration of Merle Frederick Allshouse as President of Bloomfield College.
 Edward O. Nelson at the inauguration of Thomas J. Clifford as President of the University of North Dakota, Grand Forks.
 John K. Hampson at the two hundredth anniversary convocation of Dickinson College.

The Secretary certified to the Council that seven valid petitions for candidacy for the position of member-at-large of the Council had been received, nominating Anatole Beck, Chandler Davis, Mary W. Gray, Henry W. Haslach, Jr., Marvin I. Knopp, Dale W. Lick and C. W. McArthur. It was understood that these names would be merged with those put forward by the Council and presented to the membership without distinguishing mark on the ballot.

The Council considered the report of the Nominating Committee, consisting of Edwin E. Floyd, Gerhard Kalisch, H. Jerome Keisler, William H. Reid and Dorothy Stone, Chairman. Professor Keisler did not fully concur and presented a minority report. The Council debated the reports and adopted the following slate:

Vice President (one to be elected):

Member-at-Large of the Council (five to be elected):

E. E. Moise
 I. J. Schoenberg
 Michael Golomb
 Alan J. Hoffman
 Arthur P. Mattuck
 Wolfgang H. Fuchs
 Cathleen S. Morawetz
 Linda Keen
 C. B. Bell
 Anatole Beck
 Richard K. Lashof
 Richard M. Dudley
 Abraham Robinson*
 Everett Pitcher
 Walter H. Gottschalk
 Orville G. Harrold, Jr.

Secretary:

Associate Secretary (two to be elected):

* Subsequently Professor Robinson expressed a wish to serve the Society and the profession in other ways, so that his name did not appear on the ballot.

Treasurer:	William T. Martin
Associate Treasurer:	Murray Protter
Bulletin Editorial Committee:	John L. Kelley
Proceedings Editorial Committee:	Jacob Feldman
Colloquium Editorial Committee:	Samuel Eilenberg
Mathematical Reviews Editorial Committee:	Jacob T. Schwartz
Mathematical Surveys Editorial Committee:	Paul R. Halmos
Committee to Monitor Problems in Communication (two to be elected):	Allen L. Shields Duane W. Bailey
Trustee:	Abraham H. Taub

The Council elected Jack D. Cowan and Orville G. Harrold, Jr., to be Society representatives to the Council of the American Association for the Advancement of Science for a term of three years.

The Council nominated Joseph B. Keller to represent the Society on the U.S. National Committee on Theoretical and Applied Mechanics for a term of four years.

The Council nominated Alex Rosenberg and Victor Klee to represent the Society in the Division of Mathematical Sciences of the National Research Council for a term of three years.

The Council passed a motion that the annual dues of an ordinary member whose annual professional income is less than \$15,000 shall be \$24.00 and that the annual dues of an ordinary member whose annual professional income is \$15,000 or more shall be \$32.00. The action is subject to approval by the Trustees [subsequently granted].

The Council debated at length a report from a committee consisting of Pierre Connor, W. Wistar Comfort, Chairman and Daniel Zelinsky, who had been charged to present reasons for and against a program of post-doctoral fellowships to be financed from solicited private contributions and to suggest steps by which the program, if approved, might be carried out. The Council considered the alternative of a program supported by an annual assessment. The issue was tabled but the Secretary was instructed to report in detail to the Business Meeting and the Executive Committee was asked to consider the question further.

The Council authorized the President to appoint a standing Committee on Academic Freedom, Tenure, and Employment Security. Subsequent appointments were Murray Gerstenhaber, Paul Mostert, Chairman and Paul J. Sally, Jr.

The Council adopted the following resolution:

That the National Science Foundation be encouraged in the strongest terms to increase the funds allocated for the competitive high level NSF Graduate Fellowship program to bring the total number granted for the combined mathematical sciences (pure and applied mathematics, computer sciences and statistics) to 100 new awards annually; that the holders of these fellowships be permitted to continue to exercise their

free choice in their selection of a graduate school; and that the allocation of these fellowships among the mathematical sciences be made in a coherent manner by a single representative panel on the basis of merit alone and not by quota.

The Council invited the Committee on Employment and Educational Policy to organize one or two panel discussions at Society meetings on the shape and form of graduate education in mathematics and on the major issues of graduate education.

The Council approved a revised form of position listing to replace the summaries of employment openings formerly prepared by the Mathematical Sciences Employment Registry. The new form, called Employment Information for Mathematicians, is somewhat modified from the kind of service recently supplied by the Modern Language Association.

The Council enlarged the Editorial Committee of Mathematics of Computation to four and elected James H. Bramble, Alston S. Householder, and John W. Wrench, Jr., to membership on the Committee and the Council.

The Secretary was instructed to call the second part of a resolution from the Business Meeting of January 19, 1972 (this Bulletin **78** (1972), p. 506) regularly to the attention of individuals in charge of various parts of Society programs.

During the course of the meeting, the Council recessed for dinner from 6:30 to 8:00 P.M. The Council adjourned at 12:15 A.M.

The Business Meeting was convened in the Spaulding Auditorium of the Hopkins Center at 4:20 P.M. on Thursday, August 31, 1972, by President Elect Saunders Mac Lane.

Professor Mac Lane first discussed the nature of the Steele Prizes in honor of George David Birkhoff, William Fogg Osgood, and William Casper Graustein. He then announced the recipients for 1972 as follows:

Professor Edward B. Curtis of the University of Washington for his paper "Simplicial homotopy theory", *Advances in Math.* **6** (1971), 107-209.

Dr. William J. Ellison of the University of Bordeaux for his paper "Waring's problem", *Amer. Math. Monthly* **78** (1971), 10-36.

Professor Lawrence E. Payne of Cornell University and the University of Newcastle upon Tyne for his paper "Isometric inequalities and their applications", *SIAM Rev.* **9** (1967), 453-488.

Professor Dana S. Scott of Oxford University for his paper "A proof of the independence of the continuum hypothesis", *Math. Systems Theory* **1** (1967), 89-111.

The Secretary reported on the nominations and on the increase in dues. He then reported in detail, as instructed, on the discussion of the fellowship program as considered and tabled at the Council meeting, in the following words:

"In the committee investigation and during the discussion, two possible lines of approach appeared, not necessarily completely compatible.

“The first line is that the program be directed primarily against unemployment. For this approach, the ground rules, the time schedule, and the selection process would be established so that the recipients would be the ‘best’ of the new recipients of Ph.D. degrees who did not acquire positions during the employment season.

“The second line of approach is that the program be directed in support of research. The rules would allow application by individuals already employed and would allow application during the hiring season. The candidates would be chosen for research excellence and potential.

“The second approach creates temporary jobs but increases total employment only indirectly; the recipients are presumably employable even in a very tight job market, but the positions they would otherwise take become available to someone else.

“In the first approach one can point directly to the effect on unemployment, while admitting that research fellowships have been awarded to persons not necessarily the best at research. In the second approach, one can point directly to the effect on research, while admitting that one is not sure that the body of employed mathematicians has really been increased by a number of individuals equal to the number of fellows.

“The following argument should be specially mentioned with respect to the ‘research approach’. The NSF has eliminated post doctoral fellowships. The research approach would emphasize that the mathematical community places value on such fellowships to the point of supporting them financially and thus would serve as a strong argument in our efforts to have tax supported post doctoral fellowships restored.

“The Council regards the two problems of unemployment among mathematicians and of support of research as its most significant problems, on which action must be taken.

“Whichever the approach, it is not at all clear how many fellowships could be supported by voluntary contributions. The number would be small compared with the unemployment problem. The raising of funds would be difficult.

“The question was posed whether fellowships should be funded by a special assessment on members, rather than by contributions. Without arguing the point, let me note three things. First, we are already increasing dues to meet other expenses. Second, fellowships are an academic approach while a substantial fraction of our membership is in industrial or government employ. Third, it is somewhat an American problem that is confronting us while several thousand of our members are in other parts of the world; not only is it not fully their problem but also dues and dollars may be a much larger per cent of salaries in their areas of the world.

“It is not clear whether one should be thinking about a temporary

program or a permanent one. Perhaps it should be temporary if directed against unemployment but permanent if in support of research.

"It is not clear whether fellows should be encouraged to do some teaching for additional income. Neither is it clear whether fellowships should be at a full support level (\$8,000 has been mentioned as a figure) or at partial support level with the expectation that institutions receiving fellows would necessarily provide partial support in exchange for some teaching.

"It was agreed that institutions receiving fellows should receive no compensation for so doing and no difficulty was expected over this point of policy. Excellent locations for placing fellows seem easy to secure.

"It was agreed that contributions from private foundations would be sought as well as from individuals.

"The Council became increasingly aware that several of the issues could be resolved if it were clear whether counteracting unemployment or supporting research was the primary goal."

The Business Meeting passed, by the requisite vote of two-thirds of the members present, an amendment to the bylaws recommended by the Council and published in the announcement of the meeting. The effect is to create an office of Associate Treasurer, who is a Council member with one vote and an ex officio member of the Board of Trustees. In the following detailed statement, the square brackets indicate deletions and the italics indicate insertions.

Article I, Section 1. There shall be . . . four associate secretaries, [and] a treasurer, *and an associate treasurer.*

Article II, Section 1. There shall be a Board of Trustees consisting of [seven] *eight* trustees, five trustees elected . . . together with the president, [and] the treasurer, *and the associate treasurer* of the Society ex officio.

Article VII, Section 1. The term of office shall be . . . two years in the case of . . . the associate secretaries, [and] the treasurer, *and the associate treasurer.*

Section 2. The president-elect, the vice-presidents, the secretary, the associate secretaries, the treasurer, *the associate treasurer*, the trustees, . . . shall be elected by written ballot.

Section 6. . . . Such vacancies as may occur in the group consisting of the vice-presidents, the secretary, the associate secretaries, the treasurer, *the associate treasurer*, . . . shall be filled by the Council with the approval of the Board of Trustees.

The Business Meeting adjourned at 4:50 P.M.

BETHLEHEM, PENNSYLVANIA

MIDDLETOWN, CONNECTICUT

EVERETT PITCHER

Secretary

WALTER GOTTSCHALK

Associate Secretary