

THE NEW BRUNSWICK MEETING

The American Mathematical Society held its seventy-first summer meeting at New Brunswick, New Jersey, from Tuesday through Friday, August 30–September 2, 1966. All sessions were held at Rutgers, The State University, on the College Avenue Campus. About 1856 persons attended, including 873 members of the Society.

There was no colloquium, following the established pattern for years in which there is an International Congress.

The Committee to Select Hour Speakers for Summer and Annual Meetings arranged the following invited addresses. Professor Nachman Aronszajn of the University of Kansas spoke about *Miscellanea on Hilbert spaces, linear operators, and numerical ranges*. Professor Casper Goffman introduced the speaker. Professor H. Jerome Keisler of the University of Wisconsin addressed the Society on *Recent developments in model theory*. Professor R. M. Thrall introduced the speaker. Professor V. S. Varadarajan of the University of California at Los Angeles spoke on *Representations of semisimple Lie groups*. Professor R. S. Pierce presided. Professor Karl Menger of the Illinois Institute of Technology spoke about *Ideas on complex functions*. Professor W. T. Reid introduced the speaker.

There were twenty sessions for contributed papers, at which 131 papers were presented. The chairmen of these sessions were Professors Gilbert Baumslag, Volodymyr Bohun-Chudyniv, W. M. Bogdanowicz, J. C. Cantrell, Jane Cronin, J. A. Fridy, W. A. Harris, Jr., J. P. King, W. S. Loud, K. O. May, Joseph Milkman, H. T. Muhly, F. C. Oglesby, Barbara Osofsky, Russell Remage, Jr., Dr. A. K. Snyder, Professors W. F. Trench, P. M. Whitman, Dr. H. H. Wicke, and Professor Albert Wilansky.

Several organizations cooperated in holding meetings or council meetings on the same campus and at approximately the same time as the Society. These included the Mathematical Association of America, The Institute of Mathematical Statistics, the Society for Industrial and Applied Mathematics, Pi Mu Epsilon, and Mu Alpha Theta. The Society for Industrial and Applied Mathematics presented Professor Eugene P. Wigner of Princeton University as the John von Neumann Lecturer. His address was titled *Statistical theory of spectra*. The Mathematical Association of America presented Professor Nathan J. Fine of the Pennsylvania State University as the Earle Raymond Hedrick Lecturer. His set of lectures was entitled *Basic hypergeometric series and applications*.

The Council met on Thursday, September 1. The Secretary announced the election of the following two hundred and six persons to ordinary membership in the Society:

Abeles, Francine F., Newark State College;
Aigner, Martin S., Wayne State University;
Alonso, James, Villa Madonna College;
Anderson, Bruce A., University of Iowa;
Andersson, Rolf L. M., Lunds University, Lund, Sweden;
Applebee, Ralph C., Central Washington State College;
Ar, Ergun, University of Michigan;
Arakelian, Louise V., The Catholic University of America;
Arendt, Billy D., University of Iowa;
Balbes, Raymond, University of California at Los Angeles;
Bayless, Barbara M., Tulane University;
Becker, Dr. James C., Princeton University;
Begell, William, Scripta Technica, New York, New York;
Behzad, Mehdi, Wayne State University;
Bein, Donald, Fairleigh Dickinson University;
Bothun, David C., ICOA Life Insurance Company, Salem, Oregon;
Boudreau, Dr. Paul E., International Business Machines Corporation, Raleigh, North Carolina;
Bowman, Harold, Nevada Southern University;
Bradley, Hugh P., African Educational Program, Watertown, Massachusetts;
Brannon, Mildred J., Portland State College;
Brinkmann, Hans-Berndt, Math. Inst. der University, Saarbrucken, West Germany;
Brother William John Tobin, Epiphany Apostolic Church, Newburgh, New York;
Brown, Albert M., Pinellas County Board of Public Instruction, Clearwater, Florida;
Burkhart, Charles J., University of California, Davis;
Butler, Kim K., 1403 North Taft Street, Apartment 5, Arlington, Virginia;
Calica, Arnold B., International Business Machines Corporation, Yorktown Heights, New York;
Carter, James W., San Diego State College;
Casti, John L., Tektronix, Beaverton, Oregon;
Cate, Florence C., American Mathematical Society, Providence, Rhode Island;
Cerf, Vinton G., International Business Machines Corporation, Los Angeles, California;
Chu, Walter K., Lakehead University;
Chung, Chinmyung, Chonnam National University, Chonnam, Korea;
Cibulskis, John M., Illinois Teacher's College-North;
Coifman, Ronald R., University of Chicago;
Costake, Telemann, University of Bucharest, Bucharest, Rumania;
Cover, Thomas M., Stanford University;
Davis, Roy D., Texas Instruments Incorporated, Dallas, Texas;
Delaite, Ronald R., University of Maine;
Demenil, Marian A., Maryville College;
Deschenes, Maurice J., Edgerton, Germes Hausen and Grier, Las Vegas, Nevada;
Dilnesahu, Bisrat, Haile Sellassie I University, Addis-Ababa, Ethiopia;
Dobbins, James H., International Business Machines Corporation, Houston, Texas;
Doran, Robert S., University of Washington;

Earles, William R., University of Santa Clara;
Ekblaw, Keith A., William Jewell College;
Fabry, Margaret B., Kent State University;
Fidler, Frederick K., Hanson and Associates, Rockville, Maryland;
Flanigan, Francis J., University of Pennsylvania;
Friel, James O., Adrian College;
Frolik, Zdenek., Muku, Sokolovska 83, Praha-Karlin, Czechoslovakia;
Gassman, Emmert A., Wabash Valley College;
Gaulin, Claude., College Sainte-Marie;
Geller, Harold J., Purdue University;
Ghazi, Bozorg., National University of Iran, Tehran, Iran;
Gianni, Paul A., Naval Ordnance Laboratory, Silver Spring, Maryland;
Gold, Sydell P., Sandia Corporation, Livermore, California;
Green, Eric A., Lakehead University;
Guillemin, Victor W., Columbia University;
Gustafson, William H., Wesleyan University;
Hagen, Gerald R., Westinghouse Electric Corporation, Bloomfield, New Jersey;
Hamilton, E. W., State College of Iowa;
Hanna, Peter, National Engineering Science Company, Houston, Texas;
Hardy, John T., Jr., University of Southwestern Louisiana;
Hart, Carlton N., University of Miami;
Heid, Rev. Clement J., St. Vincent College;
Herman-Giddens, G. Scott, University of Alabama;
Hill, Shirley A., University of Missouri;
Hirschy, Russell P., 236 West Park Street, Marquette, Michigan;
Holland, Finbarr., University College, Cork, Ireland;
Holmgren, Larry N., Aeronautical Chart and Information Center, St. Louis, Missouri;
Honerlah, Raymond W., University of Oregon;
Hsu, Pao-Sheng., Polytechnic Institute of Brooklyn;
Jarosak, Andrew., SUNY at Stony Brook;
Javaher, James N., Stanislaus State College;
Jockusch, Carl G. Jr., Massachusetts Institute of Technology;
Joshi, Rameshchandra L., University of California at Berkeley;
Kafka, Virginia J., Illinois Institute of Technology;
Kallianpur, Gopinath., University of Minnesota;
Kayler, Helene., College Ste. Marie;
Keyton, Michael M., Indiana University;
Kim, Jin B., Yonsei University, Yonsei, Korea;
Kraus, Eugene J., Roosevelt University;
Krohn, Kenneth B., Krohn-Rhodes Research Institute, Washington, D. C.;
Kuhlmann, Patricia A., Sam Houston State College;
Kuhn, William W., St. Joseph's College;
Kuperman, Israel B., University of the Witwatersrand, Johannesburg, South Africa;
Lafon, Earl E., University of Oklahoma;
Lasalle, Margaret M., University of Southwestern Louisiana;
Laska, Eugene M., Rockland State Hospital, Orangeburg, New York;
Laster, Stanley J., 12 Brandon Street, Lexington, Massachusetts;
Ledin, George, Jr., University of San Francisco;
Ledoux, Andre R., Wayne State University;
Lemon, Robert D., Texas Instruments Corporation, Dallas, Texas;

- Levy, Robert M., NYU-Courant;
Lewis, Constance L., Microwave Associates, Burlington, Massachusetts;
Liu, Chen T., University of Rochester;
Lozier, Frank W., Cleveland State University;
Lyapun, Eugene S., The Pedagogical Institute, Leningrad, USSR;
McCartney, Barbara J., American Mathematical Society, Providence, Rhode Island;
McDaniel, Wayne L., University of Missouri at St. Louis;
McTigue, Gerald E., Pace College;
Mackie, Andrew G., University of Maryland;
Magenes, Enrico, University of Pavia, Pavia, Italy;
Malie, Paul J., Prince George's Community College;
Mandrekar, Vidyadhar S., University of Minnesota;
Marcus, Noel, Computer Applications, New York, New York;
Mathis, Robert F., Ohio State University;
Mehra, Krishen L., University of Alberta, Edmonton, Alberta, Canada;
Merrick, Joseph B., United States Army, Waltham, Massachusetts;
Misner, Charles W., University of Maryland;
Mitchell, Alfred R., Arlington State College;
Morgan, Richard C., St. John's University;
Morley, Vivienne B., University of Wisconsin;
Morris, Peter D., University of Texas;
Nachman, Louis J., Ohio State University;
Nagabhushanam, Kandula., University of Alberta;
Nelson, Larry D., Bellcomm, Inc., Washington, D. C.;
Newberry, R. Steve., 2961 Barnard Street, San Diego, California;
Newman, Alan S., 277 Queen Street, Bridgeport, Connecticut;
Newman, Thomas G., University of Texas;
Ngalombi, Erastus M. K., Uganda Technical College, Kampala, Uganda;
Nickel, Paul A., North Carolina State University at Raleigh;
Norman, Maurice F., University of Pennsylvania;
O'Brien, Robert A., Jr., Xerox Corporation, Pittsford, New York;
Olynyk, Frank J., Case Institute of Technology;
Onley, Robert D., Wingate College;
Osborn, James H., Sylvania Electric Co., Waltham, Massachusetts;
Owen, Aubrey P., Texas Christian University;
Palfery, Eric W. H., Vancouver City College, Vancouver, British Columbia, Canada;
Parker, Robert R., Brown Engineering Company, Huntsville, Alabama;
Patel, Kantilal M., Clemson University;
Pedersen, Katherine L., Southern Illinois University;
Peluso, Ada, Hunter College (CUNY);
Peterson, Elmor L., Westinghouse Research Corporation, Churchill Boro, Pennsylvania;
Peterson, Murray B., Loyola University of Los Angeles;
Phelps, C. Russell., National Science Foundation, Washington, D. C.;
Pietraszek, Delphine, Illinois Bell Telephone Company, Chicago, Illinois;
Pines, Samuel, Analytical Mechanics Associates, Westbury, New York;
Pioquinto, Alicia., Indiana University;
Placek, Joseph A., Case Institute of Technology;
Potts, Lawrence D., Linde Division of Union Carbide Corporation, Tonawanda, New York;

- Pu, Arthur T., University of Illinois-Chicago;
Rachford, Henry H., Jr., Rice University;
Raimi, Jacob., 3361 Sherbourne Road, Detroit, Michigan;
Ramirez-Lopez, Hilda., University of Puerto Rico, Mayaguez, Puerto Rico;
Ray, Durga, McGill University, Montreal, Quebec, Canada;
Reilly, Norman Raymond, Newcomb College, Tulane University;
Rich, Ellis J., State University of New York, Maritime College at Fort Schuyler;
Rich, Robert, 1801 Kennedy Boulevard, Philadelphia, Pennsylvania;
Robinson, John D., Bell Telephone Laboratories, Inc., Whippany, New Jersey;
Ross, Clay C., Jr., United States Army, Ft. Belvoir, Virginia;
Rosenberg, Arnold L., International Business Machines Corporation, Yorktown Heights, New York;
Rosenblatt, James P., Foote, Cone and Belding, Chicago, Illinois;
Rothwell, Col. Franklin G., 2454 Broadway Street, San Francisco, California;
Rowe, Jack L., Bakersfield College;
Sah, Shu-Shen H., Slippery Rock State College;
Saletan, Eugene J., Northeastern University;
Samuels, Stephen M., Purdue University;
Saxena, Ram Kishore., McGill University;
Schmitt, Klaus, Nebraska Wesleyan University;
Shao, Tzu-Sien., Bell Telephone Laboratory, Murray Hill, New Jersey;
Shea, Daniel F., University of Wisconsin;
Shiffman, Max., Stanford University;
Shih, Fang S., University of Cincinnati;
Sister Mary Agneda Holles., Clarke College;
Smith, Nancy L., Ohio State University;
Smith, William W., University of North Carolina at Chapel Hill;
Sormani, George A., United Aircraft Research Laboratories, East Hartford, Connecticut;
Sparks, James E., University of Texas;
Sprague, C. Fremont III., Computer Applications Incorporated, San Diego, California;
Sprague, Richard H., Iowa State University;
Stahl, Stanley H., University of Michigan;
Stanley, Ruth S., West Chester State College;
Stephan, Bruce H., Polytechnic Institute of Brooklyn;
Stephany, Edward O., State University of New York, College at Brockport;
Stevens, Joyce M., California State College at Hayward;
Stockton, Dr. Fred D., R. F. D. No. 1, Belchertown, Massachusetts;
Stoltenberg, Ronald A., University of Wyoming;
Strait, Peggy T., Queens College (CUNY);
Stratton, Anthony E., University of Exeter, Exeter, England;
Striebel, Charlotte T., University of Minnesota,
Szusz, Peter, State University of New York at Stony Brook;
Tarlo, David A., McGill University, Montreal, Quebec, Canada;
Tatalias, Kosmo D., Louisiana State University in New Orleans;
Taylor, Thomas J., St. Ambrose College;
Teply, Mark L., University of Nebraska;
Terlinden, Dean W., Los Angeles City Schools, Los Angeles, California;
Thacher, Henry C., Jr., Argonne National Laboratory, Argonne, Illinois;

Thomas, Charles B., Cornell University;
 Thomas, James G., McMurry College;
 Turner, Nura D., State University of New York, College at Albany;
 Van de Water, Arthur M., Jr., University of South Carolina;
 Walschlager, Frank N., U. S. Army, Ft. Ord, California;
 Waltmann, William L., Wartburg College;
 Ward, James E. III, Spelman College;
 Warner, Daniel D., Arizona State University;
 Weill, Leon J., Florida State University;
 Weinkam, James J., University of Chicago;
 Whitney, Robin R., University of Illinois;
 Williamson, Jean D., University of California at Santa Barbara;
 Willis, Patricia A., Operations Research Incorporated, Silver Spring, Maryland;
 Wu, Frank Chi-Chung., Bowling Green State University;
 Yntema, Mary K., University of Illinois, Chicago Circle;
 Zemach, Rita D., Michigan State University;
 Zettel, Larry J., Michigan State University;

It was announced that the following had been admitted to the Society in accordance with reciprocity agreements with various mathematical organizations:

Wiskundig Genootschap te Amsterdam: Jacques A. M. Janssen, Dr. Gerrit Van Dijk.
Australian Mathematical Society: Claude E. Billigheimer, John C. Butcher, Leo J. Gleeson.
Société Mathématique de Belgique: Rene F. Laumen, Dominique Meeus, Emil F. Michaux, Jacques A. Roels.
Calcutta Mathematical Society: Rajvir S. Dahiya.
Société Mathématique de France: Dominique Foata, Pierre A. Grillet, Srinivasan Jayadev, Daniel Lehmann, Banwari L. Sharma, Jean-Louis Verdier.
The London Mathematical Society: Geoffrey Horrocks, J. Cl. Matthys, Leonard Roth, Stephen Simons, Roy Westwick.
Deutsche Mathematiker Vereinigung: Otto Endler, Otto F. Forster, Dr. Alfred Koestner, Dr. Dietrich Marsal, Wolfgang T. Meyer, Ulrich Seip, Klaus Wagner.
Indian Mathematical Society: Satish K. Aggarwal, Dr. Dharma P. Gupta, Krishna N. Kulkarni, K. Nageswara Rao, Ram Kishore Saxena, T. P. Srinivasan.
Israel Mathematical Union: Dr. Bezalel Peleg, Adolf Pollinger.
Mathematical Society of Japan: Hiroshi Fujita, Masaru Inagaki, Takashi Ito, Yoto Kubota, Mitsuru Nakai, Hidemitsu Saeki, Hiroshi Shiohara, Triloki N. Srivastava, Toshitane Uesugi, Kaoru Wakana.
Norsk Matematika Forening: Stal O. Anderaa.
Unione Matematica Italiana: Umberto Mosco.

The following two hundred and nine persons have been elected to membership in the Society on nomination of Institutional members as indicated:

Brown University: Rolf K. Adenstedt, James M. Greenberg, David R. Owen, Young-Ping Pao, Edward K. Walsh, William O. Williams.
University of California, Riverside: Lawrence S. Kroll, Jesse D. Mason, James T. Rogers Jr., Arnold D. Schimsky, David G. Whitman.

University of California, Santa Barbara: Oleg Carleton, Stanley K. Kranzler, Russell L. Merris, Donald L. Peterson.

City College (CUNY): Peter Falley, Ellen R. Gottlieb, Michael Zimmerman.

University of Denver: John P. R. Lee, Kenneth L. Noble.

George Washington University: Steven Z. Kahn.

Howard University: Mina V. Kirby.

University of Illinois: Jack K. Anderson, Marshall D. Anderson, David M. Arnold, Rudolf Bayer, Geneva G. Belford, John W. Case, Jeffery M. Cooper, Michael B. Dollinger, Vladimir Drobot, Rudolph L. Engman, Sister Mary Kristin Fellin, Kenneth B. Fine, Daniel J. Gans, Jayanta K. Ghosh, Gerald J. Giaccai, Mark P. Hale, Jr., Thomas A. Hannula, David C. Heath, Margaret F. Huang, Joe W. Jenkins, Thomas J. Kearns, Uwe Koehn, Hiroshi Kunita, Eugene W. Madison, John P. Mayberry, William P. Mech, Glen D. Meeden, Pressley W. Millar, Charles F. Miller, III., J. Stephen Montague, Hugh L. Montgomery, Larry J. Morley, Charles W. Mullins, Billy R. Nail, Kirti K. Oberai, Thomas G. Ralley, Klaus W. Roggenkamp, Chaman L. Sabharwal, N. Sankaran, Ross N. Schneider, Kenneth D. Shere, Rajinder Singh, William T. Stout, Jr., Gilbert L. Sward, Charles G. Thomas, Monbill Tong, John B. Walsh, Ronald C. Weger, Paul R. Wilson, Raymond T. Yeh, Janice R. Zemanek.

Kansas State University: Rushton E. Davis, Arthur H. Simonson, August W. Waltmann.

University of Kentucky: Ann C. (Mrs. R. S.) Heard, James E. Miller, Santiranjan Mukhoti, William P. Novinger, Bwee Lan Tjong.

Louisiana State University in New Orleans: Charles W. Groetsch, Kenneth J. Ordes, Edward A. Rinderle, Jr.

McGill University: Sheldon P. Gordon, Woon-Chung Lam, Robert C. May.

University of Miami: Jack E. Cunningham, Daniel C. Ferguson, William H. Haynsworth, Jay A. Stevens.

University of Minnesota: Conrad E. Mueller.

University of Missouri, St. Louis: Kenneth R. Beckmann, Dorothy J. Hain, Harold H. Tessereau.

University of Mississippi: Robert E. Johnson, Francis G. Olbert, Jack C. Slay.

University of Montreal: Maurice Garancon, Gilbert Labelle, Ship-Fah Wong.

NYU-Courant: Stuart S. Antman, Michel J. Bineau, Archi Brandt, Fernando Cardoso da Silva, Orin N. Chein, Lt. Salvatore J. Culosi, Dennis E. Enright, Nachman N. Eshel, Stanley Friedlander, Neal J. Friedman, Ronald A. Goldstein, William Grossmann, William E. Heierman, Richard L. Holford, Morris M. Klein, Dimitri Koutroufiotis, Gerasimos E. Ladas, David B. Nelson, Rasjidin J. Pamuntjak, Arthur Riegelhaupt, Edward J. Rigney, Eric H. Roffman, Joseph Roitberg, Shaway E. Shamma, Michael J. Sormani, Wei Tseng, Srinivasa S. R. Varadhan, Mary A. (Mrs. H. L.) Watson, David R. Westbrook.

Northern Michigan University: Donald W. Hinkkanen, A Alexander Khoury.

Northwestern State College of Louisiana: Walter C. Pine, Sam W. Shelton, Russell Whittington, Jr.

University of Notre Dame: Theodore J. Barth, Larry J. Gerstein, Joseph W. Hall, Jr., John J. Hirschfelder, Robert P. Johnson, Robert O. Kujala, Norbert H. Lacroix, Guntram B. Mueller, Stephen J. O'Donnell, V. Frederick Rickey, Sister Jeanne Alice Van Oss.

Ohio University, Athens: Charles N. Baker, James Demas, Walter T. Price.

- Oklahoma State University*: Franklin S. Brenneman, Samuel H. Douglas, W. David Moon.
- Pennsylvania State University*: Elizabeth A. Houk, William G. Quirk, Eleanor W. Satir, Anla L. Selman, Jean B. Smith.
- Portland State College*: Delbert D. Bailey, Robert Mar, William M. Templeton.
- St. Olaf College*: Vinton E. Geistfeld, Judith K. Ness, Joyce C. Olson.
- San Francisco State College*: Maryse Bader, Josephine I. Firth, Herbert L. Holden.
- University of Saskatchewan, Regina*: Carol J. Bird, James B. Carefoot, Cecil L. Kaller.
- Southern Illinois University*: Paul H. Phillips, George V. Poynor.
- Southern Illinois University, Edwardsville*: Krishna J. Srivastava.
- Southwest Texas State College*: Michael G. Bordelon, John A. Chatfield, Wilbon P. Davis.
- Stanford University*: Constance J. Golden, Dwight L. Keister, John W. Lee, Angus J. Macintyre, Bienvenido F. Nebres, Robert M. Reithner, Jr., W. Scott Tamblin, III.
- SUNY at Buffalo*: David R. Hill, John A. McCabe, Jose B. Mason, Peter N. Muller, Saraswathi Subbiah, John J. Winkleman, Jr.
- University of Toronto*: Hugh Barr, Artatrana Dash, Melvin Faierman, Hsu Hsing-Yuan, Robert V. Moody, Ashish Sen, Jon H. Thompson.
- Tulane University*: Robert C. Davis, Jr., Robert M. Stephenson, Jr.
- University of Tulsa*: Maurice G. Hartman, Thomas L. Keck, Joseph V. Swaim.
- Washington and Lee University*: Fred Helsabeck, Jr.
- Western Michigan University*: Alan A. Heisler.
- Western Reserve University*: Anthony D. Berard, Jr., Paul R. Fallone, Jr., Roy C. Jones, Jr., Don E. Leach.
- University of Wisconsin*: Robert A. Bruce, Walter J. Meyer, Alan C. Weisenberg.

It was reported that the following had accepted invitations to deliver hour addresses at Society meetings: At the Summer Meeting, Rutgers, 1966: Karl Menger, N. Aronszajn, V. S. Varadarajan, Jerome Keisler; at the University of South Florida, November, 1966: A. W. Goodman, Jacques Dixmier. It was reported that Professor L. J. Paige will serve as a representative of the Society at the 75th Anniversary Convocation of the California Institute of Technology.

The Council voted to set the Summer, 1969, Meeting at the University of Oregon, August 25 through August 29.

On recommendation of the Editorial Committee of the Bulletin, the Council voted to discontinue the Research Problem Section of the Bulletin. It was the opinion of the editors that although some worthwhile problems were received, the section was not performing as great a service as had been hoped, and did not justify the rather large amount of editorial time and labor involved.

The Council approved a proposal that the Society conduct, with support from the National Science Foundation, a survey of information exchange and publication in the mathematical sciences. It is

intended to study the relative merits of various means of exchange of mathematical information—through journals, abstracts, preprints, meetings, etc.—with an expectation of increased efficiency and economy on the part of all organizations concerned with these matters.

There was a business meeting of the Society on Friday, September 2, at 10:05 A.M. Professor Alex Rosenberg presided. The Secretary reported briefly on the affairs of the Society. In particular, he reported on plans for housing the headquarters activities of the Society in Providence. After occupying for a number of years quarters in the Butler Health Center in Providence, the Society has been forced to find other space in the near future because of the increased medical demands on Butler. As a result, the Society has taken a three year lease, with option to buy, on a four-floor building under construction in near downtown Providence. For the first three years the Society will occupy the middle two floors; the building will have room for expansion for a number of years to come.

EVERETT PITCHER
Associate Secretary

BETHLEHEM, PENNSYLVANIA