

THE ANNUAL MEETING IN CHICAGO

The seventy-second Annual Meeting of the American Mathematical Society was held at the Sherman House Hotel in Chicago, Illinois, on Monday through Thursday, January 24–27, 1966, in conjunction with the Annual Meeting of the Mathematical Association of America. Registration at the meetings was 2,609, including 2,079 members of the Society.

The thirty-ninth Josiah Willard Gibbs Lecture, *Stellar evolution*, was delivered at 8:00 P.M. on Monday, January 24, by Professor Martin Schwarzschild of Princeton University. Dean A. A. Albert, President of the Society, introduced Professor Schwarzschild.

At 3 P.M. on Wednesday, January 26, Professor J. L. Doob, Past President of the Society, gave his retiring Presidential Address, *Application to analysis of a topological definition of smallness of a set*. Professor Doob was introduced by Professor C. B. Morrey.

By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, addresses were given by Professor Richard Askey, of the University of Wisconsin, on *Norm inequalities for some orthogonal expansions* and by Professor George Glauberman, of the University of Chicago, on *Sylow 2-subgroups of finite groups*. Professor Askey was introduced by Professor I. J. Schoenberg, and Professor Glauberman by Professor R. H. Bruck.

At 2:00 P.M. on Monday, January 24, the third award of the Veblen Prize in Geometry was made. The Prize was divided, one half going to Professor Stephen Smale, of the University of California, Berkeley, for his contributions to various aspects of differential topology, and the other half going to Professors Morton Brown, of the University of Michigan, and Barry Mazur, of Harvard University, for their work on the generalized Schoenflies theorem. The Prize was awarded by Professor S. S. Chern, Chairman of the Selection Committee for the Veblen Prize. Professors Smale and Brown gave brief descriptions of the prize winning work; Professor Mazur was prevented by bad weather from being present.

There were four sessions of selected twenty-minute papers. The special session on Partial Differential Equations, organized by Professor Felix Browder, had papers by Robert Seeley, James Serrin, Tosio Kato, Felix Browder, and Edward Nelson. The special session on Markov Processes, arranged by Professor Wendell Fleming, had papers by F. B. Knight, John Lamperti, S. C. Port, Y. S. Chow and H. E. Robbins, R. E. Gangolli, and Stephen Orey and Benton Jamison. The special session on Combinatorial Mathematics, ar-

ranged by Professor Herbert Ryser, presented papers by R. H. Bruck, D. R. Fulkerson and O. A. Gross, Gian-Carlo Rota, Victor Klee and D. W. Walkup, and Marvin Marcus. The special session on Algebraic Groups, arranged by Professor Robert Steinberg, had papers by J. I. Igusa, G. D. Mostow, Takashi Ono, T. A. Springer, and E. J. Taft.

There were twenty sessions for contributed ten-minute papers, presided over by the following: Robert Seeley, R. G. Douglas, T. G. McLaughlin, H. Zassenhaus, C. W. Curtis, Morris Marden, O. G. Harrold, Jr., Joseph Landin, Irving Reiner, J. C. C. Nitsche, R. H. Bruck, R. K. Lashoff, Victor Klee, C. E. Burgess, R. R. Phelps, Arthur Grad, Ivar Stakgold, P. R. Masani, M. D. Donsker, and D. Greenstein.

Abstracts of papers presented at the meeting appear in the Notices of the American Mathematical Society for January, 1966.

The Illinois Institute of Technology and the University of Illinois, Chicago Circle, were hosts to the visiting mathematicians at a tea on Wednesday afternoon.

The Arrangements Committee for the Meeting consisted of Haim Reingold, Chairman, H. L. Alder, Arthur Grad, Louis A. Kokoris, Joseph Landin, Josephine Mehlberg, Seymour Sherman, G. L. Walker, and L. R. Wilcox.

The Council met on Sunday, January 23. The Secretary announced the election of the following one hundred-thirty persons to ordinary membership in the Society:

Altheide, Carl P., Knox College;
 Anderson, Robert V., Chicago Teachers College South;
 Ansjar, Muhammad, New York University-Courant;
 Baez-Duarte, Luis, Universidad Central de Venezuela, Caracas, Venezuela;
 Belleza, Ines G., University of the Philippines, Diliman, Rizal, Philippines;
 Bergman, Douglas N., Boeing Company, Seattle, Washington;
 Berkey, Judith O. (Mrs.), International Business Machines Corporation, Endicott, New York;
 Bidwell, James C., Douglas Aircraft Corporation, Santa Monica, California;
 Blair, William D., Willis High School, Delaware, Ohio;
 Blumberg, Duane D., University of Wisconsin;
 Borden, Stephen W., Collegiate School, New York, New York;
 Boyd, Milton E. Jr., International Business Machines Corporation, Hartford, Connecticut;
 Braude, H. Michael, University of Pennsylvania;
 Bridges, William G. Jr., Syracuse University;
 Brown, Jerry B., USS Richard B. Anderson, FPO, San Francisco, California;
 Cheng, Shan-Hwei, Tulane University;
 Constantine, Randolph Jr., Fort Lewis College;
 Conway, John B., Indiana University;
 Cornish, Don, 2540 N. E. 97th Street, Seattle, Washington;

Dacanay, Rev. Jose A., Ateneo De Naga College, Naga City, Philippines;
Davison, John W., Jr., Sperry Piedmont, Charlottesville, Virginia;
De Castro, Manuel Jose, University of Miami;
Deutschlander, Ronald S., Northrop Nortronics Corporation, Hawthorne, California;
Dorner, George C., Millikin University;
Dunn, Brian F., Fairfield University;
Favila, Raymundo A., University of the Philippines, Quezon City, Philippines;
Fenley, John C., Illinois Institute of Technology;
Fograscher, Arthur C., Brookhaven High School, Worthington, Ohio;
Frank, Peter, Syracuse University;
Fraser, Wallace, York University;
Gaeta, Federico, SUNY at Buffalo;
Gard, James R., Georgia Institute of Technology;
Gard, Thomas C., University of North Carolina;
Gardner, Calvin L., Computer Control Corporation, Framingham, Massachusetts;
Gersten, Stephen M., Rice University;
Gifford, Lawrence D. Jr., U. S. Naval Command Systems Support Activity, Washington, D. C.;
Goldman, Jerry I., Illinois Institute of Technology;
Goodrich, Robert K., University of Utah;
Grant, Richard J., University of Chicago;
Graue, Louis C., Bowling Green State University;
Graves, David T., University of Virginia;
Groves, John E., Pasadena College;
Gunasekera, G. A. S., Official Language Department, Colombo, Ceylon;
Goldenthal, Sumner, 2 Church Street, South, New Haven, Connecticut;
Hamel, Earl O., New Haven College;
Harrell, Carl E., University of Texas;
Harrison, Joseph A., Stanford University;
Hassett, Loran S., Bonneville Power Administration, Portland, Oregon;
Hicks, Troy L., Illinois State University;
Hirsch, Peter M., University of Wisconsin;
Hobbs, Billy F., Olivet Nazarene College;
Holz, William H., R. R. Donnelley and Sons, Chicago, Illinois;
Hughes, Robert B., Autonetics, Anaheim, California;
Hurliman, Dale A., University of Arizona;
Iarel, Cristina P., University of the Philippines, Manila, Philippines;
Jain, Naresh C., University of Minnesota;
Johnson, Frederick C., University of Washington;
Kapat, James J., Clark University;
Karlovtz, Les A., Western Reserve University;
Kilgore, Mary S., Thiokol Chemical Corporation, Huntsville, Alabama;
Kugel, Peter, Technical Operational Research, Burlington, Massachusetts;
Lam, Peck-Heng, Raffles Institute, Singapore;
Lamb, Charles W., University of Illinois;
Landry, Gordon J., Louisiana State University in New Orleans;
Lavender, DeWitt E., University of Georgia;
Law, Garret R., School District 1C, Astoria, Astoria, Oregon;
Levin, Mark D., University of Iowa;
Levine, Joan L., Newark State College;
Liu, Kun-Tsung, SUNY at Buffalo;

McPherson, Galen L., Daniel A. Stone, Denver, Colorado;
Marfori, Mario L., Marfori Estate, Davao City, Philippines;
Maurais, Henry A., Sacred Heart University;
Meyer, Albert R., Harvard University;
Michaels, Brenda, U. S. Naval Supply Research and Development Facility, Bayonne,
New Jersey;
Mickewich, Thomas, University of Maine;
Min, Saki, Cornell University;
Morton, Robert A., University of Pennsylvania;
Mowat, Rev. David G., St. Jerome's College;
Mueller, Elsie C., Morningside College;
Murakami, Shingo, Osaka University, Toyonaka (Osaka), Japan;
Musselman, Nicholas, Ferris State College;
Myint-U, Tyn, Manhattan College;
Navaratnam, Vaithilingam, Department of Agriculture, Peradeniya, Ceylon;
Neuhouser, Dr. David L., Manchester College;
Olubummo, Adegoke, Univeristy of Ibadan, Ibadan, Nigeria;
Orense, Marcelo M., University of the Philippines, Manila, Phillippines;
Perera, Daya A., Science Training College, Colombo, Ceylon;
Peresich, Eugene A. III., Boeing Company, Huntsville, Alabama;
Prather, Ronald E., San Jose State College;
Richartz, Michael, University of San Carlos, Cebu City, Philippines;
Ringel, Ruth B. (Mrs. M. M.), South Side High School, Newark, New Jersey;
Roberts, Charles E., Jr., University of Illinois;
Robertson, William M., U. S. Air Force, L. G. Hanscom Field, Massachusetts;
Rodstein, Bernard, Air Force Institute of Technology, Wright-Patterson Air Force
Base, Ohio;
Ross, Elizabeth A., University of California at Berkeley;
Rovnyak, Virginia G. (Mrs. J. L.), Purdue University;
Royalty, William D., University of Iowa;
Ruback, Marvin L., U. S. Army, Ft. Sill, Oklahoma;
Rucker, Isabelle P. (Mrs.), State Department of Education, Richmond, Virginia;
Rudin, Bernard D., Lockheed Missile and Space Company, Palo Alto, California;
Santos, Ernesto Reyes, University of the Philippines, Quezon City, Philippines;
Sapojnikoff, Victor K., Wiess College, Rice University;
Schwidorski, Ernst W., U. S. Naval Weapons Laboratory, Dahlgren, Virginia;
Segnari, T. James, U. S. Army Information and Data Systems Command, Washing-
ton, D. C.;
Shor, Samuel W. W., Bureau of Ships, Washington, D. C.;
Shores, Thomas S., Kansas University;
Singh, Birbal S., Birla Institute of Technology and Science, Pilani, India;
Sister Virginia Mary Waitekunas, Newman Central Catholic High School, Sterling,
Illinois;
Sornito, Juan E., Central Philippines University, Iloilo City, Philippines;
Speers, Richard L., University of Kansas;
Spraglin, William E., University of California at Los Angeles;
Spillson, Nick L., National Cash Register Company, Dayton, Ohio;
Spring, Lt./j.g. Rheuble A., U. S. Navcommsta, FPO, New York, New York;
Staudte, Robert G. Jr., University of Illinois;
Stiles, Wilbur J., Florida State University;
Sweet, Thomas R., Cornell Aeronautical Laboratories, Buffalo, New York;

Tan, Guan-Eng, Singapore Polytechnic, Singapore;
 Tolle, John E., Ohio State University;
 Tredon, Thomas A., University of Illinois;
 Tucker, Trueman D., Columbia Basin College;
 Viillard, Michel, Universitat de Rennes, Rennes, France;
 Walsh, James J., Prentice-Hall, Englewood Cliffs, New Jersey;
 Walter, James R., Eastern Michigan University;
 Warntz, Adrian A., Syracuse University;
 Wickramasinghe, Percival H., Ceylon Institute of Scientific and Industrial Research,
 Colombo, Ceylon;
 Wilcox, Howard J., University of Connecticut;
 Wilf, Herbert S., University of Pennsylvania;
 Wong, Loke Jame, Singapore Teacher-Training College, Singapore;
 Woodruff, Roger L., Peace Corps Trainee, Portland, Oregon;
 Zave, Derek A., Case Institute of Technology;

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

Société Mathématique de France: Benejam, Jean-Pierre, Vessel, Manoutcher.
Israel Mathematical Society: Steinberger, Meir.
Mathematical Society of Japan: Hokari, Shisanji.
The London Mathematical Society: Guy, Richard K.
Wiskundig Genootschap te Amsterdam: Blij, Frederik Van Der, Seidel, Johan J.

The following person has been elected to membership in the Society on nomination of Institutional members as indicated:

Brown University: Billotti, Rev. Joseph E.

Washington and Lee University was elected an Institutional Member of the Society, and Texaco, Inc., elected a Corporate Member.

W. H. J. Fuchs was elected to replace Maurice Heins on the Editorial Committee of the Proceedings for the period September, 1965, to September, 1966.

The following Presidential appointments were reported:

As an Arrangements Committee for the Rutgers Meeting: Louis McAuley, Chairman, Richard Cohn, Joshua Barlaz, John Bender, F. Eugene Clark, Katherine Hazard, Barbara Osofsky, Malcolm Robertson, Kenneth G. Wolfson, Saul Blumenthal, J. H. Griesmer.

As a Committee on the Cole Prize in Number Theory: Marshall Hall, Chairman, Alfred Brauer, N. Ankeney.

As an Organizing Committee for the Symposium on Singular Integrals: A. Calderon, Chairman, Antoni Zygmund, K. O. Friedrichs, R. Seeley.

As Tellers for the 1965 Election of Members and Officers of the Society: Robert F. Brown, Charles J. Stone.

Added to the Committee on the Symposium on Computer Science: Harry Huskey, A. G. Oettinger.

As a Committee to Select the Gibbs Lecturers for 1967 and 1968: I. M. Singer, Chairman, Peter Lax, Maurice Heins.

As a Nominating Committee for the 1966 Election of Members and Officers of the Society: E. H. Spanier, Chairman, Herman Chernoff, David Buchsbaum, Richard Schaefer, S. C. Kleene.

As a Committee to Nominate Members of the Council to Run for the Executive Committee: Alex Rosenberg, Chairman, Paul Halmos, Leo Zippin.

To the Committee to Select Hour Speakers for Summer and Annual Meetings: L. M. Blumenthal.

To the Committee to Select Hour Speakers for Midwestern Meetings: Morris Marden.

To the Committee to Select Hour Speakers for Southeastern Meetings: Alfred Brauer.

To the Committee to Select Hour Speakers for Far Western Meetings: T. S. Motzkin.

To the Committee to Select Hour Speakers for Eastern Meetings: Murray Gerstenhaber.

The following were appointed Delegates of the Society:

Dr. R. Courter at the inauguration of William Rea Keast as President of Wayne State University.

Roy Dubisch at the inauguration of the Very Reverend John A. Fitterer, S.J., as President of Seattle University.

Herbert Federer at the inauguration of the Very Reverend William Paul Haas as President of Providence College.

Wayne W. Gutzman at the inauguration of Charles Lewis Balser as President of Augustana College.

W. L. Duren represented the Society at the Conference of the Ad Hoc Committee for Mathematics of the U. S. Office of Education.

The Secretary reported that the following had accepted invitations to deliver hour addresses: Max Koecher, at the Massachusetts Institute of Technology, October, 1965; George Glauberman and Richard Askey, at Chicago, January, 1966; W. H. J. Fuchs, at New York University, February, 1966; Walter Feit and T. Tamagawa, at New York, April, 1966.

The Secretary reported that the Board of Trustees approved the recommendation of the Council that the Society defray, when other

funds are not available, the travelling expenses of Members to Council Meetings in order to encourage attendance. The extent of the support is to be consistent with that of the Mathematical Association of America to its Board of Governors—five cents a mile.

The Executive Director reported that the Symposium on Singular Integrals to be held at the Chicago, Spring, 1966, meeting, had run into difficulty in obtaining the expected financing from the Office of Naval Research. Fortunately, however, the National Science Foundation was able at a late hour to finance the Symposium with the exception of manuscript fees. President Albert was able to provide funds for these fees from the University of Chicago, which is celebrating its 75th anniversary.

A report was received from President Albert on conversations he had with officials of the Mexican Mathematical Society concerning a possible joint meeting of the two societies in Mexico City. It was reported that the Mexican Mathematical Society had approved the dates November 24 and 25, 1966, for this meeting. The Council also approved these dates, but authorized the appropriate Associate Secretary to make a shift to November 25 and 26, 1966, if it appeared desirable.

The Council approved a proposal of the Bulletin Editorial Committee that the National Science Foundation be asked to continue the program of subsidized expository papers in the BULLETIN.

The Council approved recommendations by the Executive Committee that the Society prepare a Romanian-English vocabulary of mathematical terms and a manual for the translation of mathematical Russian. These publications would be largely for the use of reviewers of Romanian articles for MATHEMATICAL REVIEWS and for translators in the Society's translation program.

The Council approved the recommendation of the Applied Mathematics Committee that the Society sponsor a Summer Seminar in Applied Mathematics in the summer of 1967 on the subject, Mathematics of the Decision Sciences.

Two projects, contemplated by the Conference Board of the Mathematical Sciences were considered and approved by the Council. They were the Colloquium in Education in the Mathematical Sciences, and a series of Regional Symposia in the Mathematical Sciences.

The report of the Joint Committee of the Society and Association on the Graduate Program was received. The Secretary was instructed to negotiate with the Association for the discharge of this committee.

There was a Business Meeting of the Society at 11:00 A.M. on

Monday, January 24. President Albert presided. The Secretary reported briefly on the affairs of the Society and announced the results of the recent election of Officers and Members of the Council. He also reported that A. E. Meder had resigned as a Trustee of the Society and that the Trustees had elected Morton Curtis to the unexpired portion of his term. The Secretary expressed thanks on behalf of the Society to the members of the Local Arrangements Committee, and also to several groups of college student volunteers from Roosevelt College, Rosary College, and Illinois Institute of Technology who had assisted with the registration arrangements.

A question was raised from the floor as to whether consideration was being given to the possibility of changing the Annual Meeting back to the Christmas-New Year period, particularly in view of the fact that many schools were now going on the quarter system. The Secretary reported that the next three annual meetings were already set for late January, but that the Committee on Places of Meetings tried to keep itself informed on the feelings of the members in this regard. However, there did not seem to be any great movement among the members for making this change.

The meeting adjourned at 11:25.

JOHN W. GREEN,
Secretary
SEYMOUR SHERMAN,
Associate Secretary

LOS ANGELES, CALIFORNIA
BLOOMINGTON, INDIANA