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Printed in the United States of America
### CALENDAR OF MEETINGS

**Note:** This Calendar lists all of the meetings which have been approved by the Council up to the date at which this issue of the *Notices* was sent to press. The meeting dates which fall rather far in the future are subject to change. This is particularly true of the meetings to which no numbers have yet been assigned.

<table>
<thead>
<tr>
<th>Meeting No.</th>
<th>Date</th>
<th>Place</th>
<th>Deadline for Abstracts</th>
</tr>
</thead>
<tbody>
<tr>
<td>532</td>
<td>February 23, 1957</td>
<td>New Haven Connecticut</td>
<td>Jan. 10</td>
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<tr>
<td>533</td>
<td>April 5–6, 1957</td>
<td>New York, New York</td>
<td>Feb. 20</td>
</tr>
<tr>
<td>534</td>
<td>April 19–20, 1957</td>
<td>Chicago, Illinois</td>
<td>Feb. 20</td>
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<td>535</td>
<td>April 20, 1957</td>
<td>Berkeley, California</td>
<td>Feb. 20</td>
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<tr>
<td>536</td>
<td>June 15, 1957</td>
<td>Pullman, Washington</td>
<td>May 2</td>
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<tr>
<td>537</td>
<td>August 26–30, 1957</td>
<td>University Park, Pennsylvania</td>
<td>July 12</td>
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<td></td>
<td>(62nd Summer Meeting)</td>
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<td></td>
<td>November, 1957</td>
<td>Columbia, Missouri</td>
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<td></td>
<td>January 28–30, 1958</td>
<td>Cincinnati, Ohio</td>
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<td></td>
<td>(64th Annual Meeting)</td>
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<td></td>
<td>November, 1958</td>
<td>Evanston, Illinois</td>
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<td></td>
<td>November, 1959</td>
<td>Detroit, Michigan</td>
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The *Notices* of the American Mathematical Society is published seven times a year, in February, April, June, August, October, November, and December. Inquiries should be addressed to the American Mathematical Society, Ann Arbor, Michigan, or 190 Hope Street, Providence 6, R. I.

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News Items and Announcements should be sent to *Notices* of the American Mathematical Society, 190 Hope Street, Providence 6, R. I.
FIVE HUNDRED THIRTY-SECOND MEETING
New Haven, Connecticut
February 23, 1957

PROGRAM

The five hundred thirty-second meeting of the American Mathematical Society will be held at Yale University in New Haven, Connecticut, on Saturday, February 23, 1957. All sessions will be held in Room 102 of the Osborn Zoological Laboratory.

Professor J. T. Tate of Harvard University will deliver an address, entitled *Class formations*, at 2:00 P.M. by invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings.

Sessions for contributed papers will be held at 10:30 A.M. and at 3:15 P.M. The registration desk will be located in the lobby of Osborn Zoological Laboratory.

Yale University is located in the center of New Haven, Connecticut, the Osborn Zoological Laboratory being on the corner of Sachem and Prospect Streets. Those persons arriving by train can take a Spring Glen bus from the station, ride out Whitney Avenue to Sachem Street and walk (left) two blocks to Prospect Street. Mail and telegrams should be addressed in care of Department of Mathematics, Leet Oliver Memorial Hall, Yale University, New Haven 11, Connecticut.

PROGRAM OF THE SESSIONS
(Time limit for each contributed paper, 10 minutes)

SATURDAY, 10:30 A.M.

Session on Algebra and Theory of Numbers

(1) The generalized word problem for free groups with an application to Post languages  
    Dr. M. O. Rabin, Princeton University

(2) A characterization of some metacyclic groups  
    Professor E. V. Schenkman, Louisiana State University
(3) Derivations in prime rings
   Dr. E. C. Posner, University of Chicago and Bell Telephone Laboratories

(4) Some theorems concerning partitions
   Professor Emil Grosswald, University of Pennsylvania

(5) All invariant convex functions of hermitian matrices
   Dr. Chandler Davis, Columbia University and New School for Social Research

SATURDAY, 2:00 P.M.

General Session

Class formations (One hour)
   Professor J. T. Tate, Harvard University

SATURDAY, 3:15 P.M.

Session on Analysis

(6) Non-admissible data for partial differential equations with constant coefficients
   Professor Fritz John, New York University

(7) The generalization to \( n \) dimensions of Bendixson's non-existence criterion
   Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(8) On analytic functionals derivable from differential equations
   Mr. Barry Bernstein, Office of Naval Research

(9) The definition and ergodic properties of the stochastic adjoint of a unitary transformation
   Professor Norbert Wiener and Dr. E. J. Akutowicz, Massachusetts Institute of Technology

(10) On weighted mean Stieltjes sigma integrals of order \( p \)
    Professor F. M. Wright, Iowa State College

(11) Uniform norm structure in Banach spaces. Preliminary report
    Dr. Frederic Cunningham, Jr., Bryn Mawr College

SUPPLEMENTARY PROGRAM
   (To be presented by title)

(12) A note on function quantification
    Dr. J. W. Addison, Jr., Institute for Advanced Study, and Professor S. C. Kleene, Princeton University
(13) A note on elimination
Professor J. W. Andrushkiw, Seton Hall University

(14) Dimension of prime ideals in polynomial rings
Professor Maurice Auslander, Institute for Advanced Study, and Professor Alex Rosenberg, Institute for Advanced Study and Northwestern University

(15) Irrotationality, invariance, and instability. I
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(16) Irrotationality, invariance, and instability. II
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(17) Generalizations to n dimensions of the combined theorems of Poincaré-Bendixson, Poincaré-Denjoy, and Haas. I
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(18) Generalizations to n dimensions of the combined theorems of Poincaré-Bendixson, Poincaré-Denjoy, and Haas. II
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(19) Global asymptotic stability of equilibrium. I
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(20) The real parts of eigenvalues
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(21) Alternatives to the Routh-Hurwitz criterion
Dr. R. W. Bass, RIAS, Incorporated, Baltimore, Maryland

(22) Pseudo-arc is only nondegenerate homogeneous chainable compact continuum
Professor R. H. Bing, University of Wisconsin

(23) The norm of cohomology class, with applications to the theory of area
Mr. M. R. Demers and Professor Herbert Federer, Brown University

(24) On 2 dimensional Lebesgue area
Mr. M. R. Demers and Professor Herbert Federer, Brown University

(25) On subbases for uniform structures
Professor I. S. Gal, Cornell University

(26) On a generalized notion of compactness
Professor I. S. Gal, Cornell University

(27) A set of invariants for relative singular homotopy type
Mr. S. L. Gulden, Lehigh University

(28) On a theorem of von Neumann
Dr. Dorothy Maharam, University of Manchester
(29) A theorem on spirals in the plane
   Mr. W. S. Mahavier, University of Texas

(30) A problem of Rosser and Turquette in many-valued logic
   Dr. Angelo Margaris, Oberlin College

(31) Generalized Rayleigh processes
   Professor K. S. Miller, New York University, and Professor
   R. I. Bernstein, Columbia University

(32) Star bounded coverings
   Professor G. D. Mostow, Johns Hopkins University and Insti­
   tute for Advanced Study

(33) On the fundamental group of a homogeneous space
   Professor G. D. Mostow, Johns Hopkins University and Insti­
   tute for Advanced Study

(34) Equivariant embeddings in Euclidean space
   Professor G. D. Mostow, Johns Hopkins University and Insti­
   tute for Advanced Study

(35) On a conjecture of Montgomery
   Professor G. D. Mostow, Johns Hopkins University and Insti­
   tute for Advanced Study

(36) Convex sets and nearest points. II
   Mr. R. R. Phelps, University of Washington

(37) On certain conformal maps in three space
   Professor M. O. Reade, University of Michigan

(38) On quasi-conformal maps in three space. Preliminary report
   Professor M. O. Reade, University of Michigan

(39) A radius of univalence for \( \int_0^2 e^{-t^2} d\zeta \). Preliminary report
   Professor M. O. Reade, University of Michigan

(40) On Umezawa's criteria for univalence
   Professor M. O. Reade, University of Michigan

(41) A new type of automorphism of the general linear group over a ring
   Professor Irving Reiner, University of Illinois

(42) On estimating partial differential operators
   Mr. Martin Schecter, New York University

(43) A best possible result in the uniqueness of Laplace series
   Professor V. L. Shapiro, Rutgers University

(44) A classification of immersions of the 2-sphere
   Dr. Stephen Smale, University of Chicago

Storrs, Connecticut
January 10, 1957

R. D. Schafer
Associate Secretary
PRELIMINARY ANNOUNCEMENTS OF MEETINGS

FIVE HUNDRED THIRTY-THIRD MEETING

New York, New York
April 4-6, 1957

The five hundred thirty-third meeting of the American Mathematical Society will be held on Thursday, Friday, and Saturday, April 4-6, 1957, at New York University.

A Symposium on Orbit Theory (sponsored by the Society and the Office of Ordnance Research) will be held on Thursday and Friday. The Symposium will be divided into three sessions, each of which will be held in the Law Center Auditorium of Vanderbilt Hall. The first session will be held Thursday morning and will deal with orbits in modern physics. The second session will be held Thursday afternoon and will deal with cislunar orbits (artificial satellites, moon rockets, etc.). The third session will be held Friday morning and will deal with classical orbits in celestial mechanics. Further information will appear in the next issue of these Notices, or may be obtained from the Chairman of the Committee on Arrangements, Professor J. Barkley Rosser of Cornell University.

By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings, Professor Bernard Friedman of New York University will address the Society on Friday at 2:00 P.M. on Boundary conditions at infinity and virtual eigenvalues in the Law Center Auditorium, Vanderbilt Hall, and Professor R. V. Kadison of Columbia University will deliver an hour address entitled A survey of the theory of operator algebras on Saturday at 2:00 P.M. in the School of Education Auditorium, Education Building.

There will be sessions for contributed papers in the Main Building at 3:15 P.M. on Friday, and at 10:00 A.M. and 3:15 P.M. on Saturday. The Employment Register will be maintained in the Main Building, Room 805.

A registration desk will be located near the Law Center Auditorium, Vanderbilt Hall, throughout the sessions of the Orbit Theory Symposium and the Society meeting. Maps of the area and lists of restaurants in the vicinity will be available at the registration desk. It does not seem feasible or necessary to list hotels.

The Institute of Mathematical Sciences of New York University will give a tea at 5:00 P.M. on Friday in the Green Room of the East Building.
The Main Building of New York University is at the northeast corner of Washington Square, and Vanderbilt Hall is at the southwest corner. The Education Building is on the east side of Washington Square at the intersection of West 4th Street and Green Street. The East Building is adjacent to the Education Building, with entrance on Green Street between West 4th Street and Washington Place.

Washington Square may be reached by public transportation as follows:

Lexington Avenue (Interborough) Subway (IRT)—Local to Astor Place Station. Walk west on Astor Place to Broadway, then south on Broadway to Waverly Place, and west on Waverly Place to Washington Square.

Seventh Avenue (Interborough) Subway (IRT)—Local to Sheridan Square Station. Walk east on Waverly Place to Washington Square.

Broadway (Brooklyn–Manhattan) Subway (BMT)—Brighton local or Fourth Avenue local to Eighth Street Station. Walk south on Broadway to Waverly Place, then west on Waverly Place to Washington Square.

Sixth or Eighth Avenue (Independent) Subway (IND)—Express to West Fourth Street–Washington Square Station. Walk east on West Fourth Street or Waverly Place to Washington Square.

Fifth Avenue Bus—Busses numbered 2, 3, 5, and 19 to last stop, which is Washington Square.

Further details of the meeting will appear in the next issue of the Notices. Abstracts of contributed papers should be sent to the American Mathematical Society, 190 Hope Street, Providence 6, Rhode Island, so as to arrive NOT LATER THAN THE DEADLINE, February 20.

R. D. Schafer
Associate Secretary

Storrs, Connecticut
January 10, 1957

FIVE HUNDRED THIRTY-FOURTH MEETING
Chicago, Illinois
April 19–20, 1957

The five hundred thirty-fourth meeting of the American Mathematical Society will be held at the University of Chicago, Chicago, Illinois, on Friday and Saturday, April 19–20, 1957. All sessions will be held in Eckhart Hall.

Registration will be in the Common Room on the second floor of Eckhart Hall, beginning at 9:00 A.M., Friday.

There will be a meeting of the Council on Friday.

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By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, Professor Rene Thom of the University of Chicago and the University of Strasbourg will address the Society on the topic *Topology of differentiable function spaces*. Professor Thom's lecture will be held in Room 133 at 2:00 P.M. on Friday, April 19.

Sessions for the presentation of contributed papers will be held at 10:00 A.M. on Friday and Saturday, and 3:15 P.M. on Friday.

There will be a special session on Saturday for the presentation of papers which failed to meet the deadline. Further details will be available at the registration desk.

There will be a tea in the Common Room of Eckhart Hall starting at 4:15 P.M. on Friday.

The facilities of Hutchinson Commons, a dining hall directly across from Eckhart Hall, will be available to members of the Society and guests for all meals.

The following hotels have agreed to accommodate those members of the Society making reservations in advance:

### in the University district

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Single</th>
<th>Double</th>
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</thead>
<tbody>
<tr>
<td>Shoreland Hotel</td>
<td>$7.00 up</td>
<td>$9.00 up</td>
</tr>
<tr>
<td>5454 South Shore Drive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Del Prado Hotel</td>
<td>7.00–11.00</td>
<td>9.00–13.00</td>
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<tr>
<td>5307 South Hyde Park Blvd.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotels Windermere</td>
<td>6.50–8.50</td>
<td>8.50–11.00</td>
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<tr>
<td>1642 East 56th Street</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotel Broadview</td>
<td>4.00–6.00</td>
<td>6.00–8.00</td>
</tr>
<tr>
<td>5400 South Hyde Park Blvd.</td>
<td></td>
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<tr>
<td>Hotel Miramar</td>
<td>3.50–5.50</td>
<td>5.00–7.00</td>
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<tr>
<td>6218 South Woodlawn</td>
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<td></td>
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<tr>
<td>Hyde Park Y. M. C. A.</td>
<td>2.25</td>
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<tr>
<td>1400 East 53rd Street</td>
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### in the Loop district

<table>
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<tr>
<th>Hotel</th>
<th>Single</th>
<th>Double</th>
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<tbody>
<tr>
<td>The Conrad Hilton</td>
<td>6.50–10.00</td>
<td>12.00 up</td>
</tr>
</tbody>
</table>

Reservations should be made directly with the hotel.

Complete details will be found in the final program in the next issue of the *Notices*.

J. W. T. Youngs
Associate Secretary

Bloomington, Indiana
January 10, 1957
FIVE HUNDRED THIRTY-FIFTH MEETING
Berkeley, California
April 20, 1957

The five hundred thirty-fifth meeting of the American Mathematical Society will be held on Saturday, April 20, 1957 at the University of California in Berkeley.

By invitation of the Committee to Select Hour Speakers for Far Western Sectional Meetings, Professor A. L. Whiteman of the University of Southern California will address the Society on Recent developments in the theory of cyclotomy at 2:30 P.M. in Room 145, Dwinelle Hall.

Sessions for contributed papers will be held at 10:00 A.M. in Rooms 111 and 145 Dwinelle Hall. Registration will take place in the front lobby of Dwinelle Hall. Tickets will be sold at the Registration Desk for lunch at the Men's Faculty Club at 12:30 P.M., at a cost of $1.00 each.

Accommodations are available at several motels on University Avenue, and at the Shattuck and Durant Hotels. The hotels are within walking distance of the campus.

V. L. Klee, Jr.
Associate Secretary

Los Angeles, California
January 10, 1957
NEWS ITEMS AND ANNOUNCEMENTS

A POSTDOCTORAL FELLOWSHIP FOR RESEARCH AND STUDY IN APPLIED MATHEMATICS is being offered by the Institute for Fluid Dynamics and Applied Mathematics of the University of Maryland. The fellowship carries a stipend of $4,000 for ten months beginning September 1, 1957. The fellowship requires no service and is intended to promote the scholarly growth of the holder, so $300 per month of the stipend is nontaxable. Applications should be made to the Committee on Fellowships in care of the Institute. They should include: (1) an outline of the academic career of the applicant, (2) his plans for study, (3) letters of recommendation.

TEMPORARY MEMBERSHIPS OF THE INSTITUTE OF MATHEMATICAL SCIENCES OF NEW YORK UNIVERSITY. The Institute of Mathematical Sciences of New York University offers temporary memberships to mathematicians and other scientists holding the Ph.D. degree who intend to study and do research in the fields in which the Institute is active. These fields include functional analysis, ordinary and partial differential equations, mathematical physics, fluid dynamics, electromagnetic theory, numerical analysis and digital computing, and various specialized branches, such as hydromagnetics and reactor theory.

The temporary membership program is designed primarily as a means of alleviating the present critical shortage of scientists trained in mathematical physics, applied mathematics, and related fields of mathematical analysis. The program is being supported by the National Science Foundation and also by funds contributed by industrial firms.

Temporary members may participate freely in the research projects, the advanced graduate courses and the research seminars of the Institute, and they will have the opportunity of using the computational facilities.

The temporary members will receive a stipend commensurate with their status.

Membership will be awarded for one year, but it may be renewed. Special arrangements can be made for applicants who expect to be on leave of absence from their institutions.

The temporary membership program is currently in operation. During this academic year eight temporary members are in residence.

Requests for information and for application blanks should be addressed to the Membership Committee, Institute of Mathematical Sciences, 25 Waverly Place, New York 3, N.Y.
SUMMER INSTITUTES FOR HIGH SCHOOL AND COLLEGE
TEACHERS OF SCIENCE AND MATHEMATICS SUPPORTED BY THE
NATIONAL SCIENCE FOUNDATION. The National Science Founda-
tion has announced the award of grants totaling $4,800,000 for the
support of Summer Institutes during the summer of 1957. Approximately
4,500 high school and 250 college teachers of science and mathematics
will participate in these Institutes. The Summer Institutes are in addition
to the 16 academic year Institutes for which the foundation has re-
cently announced support in the amount of $4,065,000; these will have
an expected enrollment of 750 high school science and mathematics
teachers. The grants to each Summer Institute will cover costs of tu-
tion and other fees for a specified number of teachers. The number
ranges from 10 to 200, with the average size to be approximately 50.
Most Institutes will pay stipends to the participating teachers at the
rate of $75 per week. Additional allowances for dependents to a maxi-
mum and for travel are provided.

The following institutions will hold Summer Institutes for high
school teachers which will be concerned with mathematics only: Co-
lumbia University Teachers College, New York 27, New York; Indiana
University, Bloomington, Indiana; Miami University, Oxford, Ohio; Mon-
tana State College, Bozeman, Montana; Polytechnic Institute of Puerto
Rico, San German, Puerto Rico; State Teachers College, Oneonta, New
York (Jr. H. S. Teachers); State University of Iowa, Iowa City, Iowa;
University of Buffalo, Buffalo, New York; University of Chicago, Chi-
cago, Illinois; University of Colorado, Boulder, Colorado; University
of Massachusetts, Amherst, Massachusetts; University of Notre Dame,
Notre Dame, Indiana; University of Wyoming, Laramie, Wyoming. There
will be an Institute for high school and college teachers held at the Uni-
versity of Kansas, Lawrence, Kansas.

Finally, the Summer Seminar in Applied Mathematics, to be conductioned by the American Mathematical Society and the University of Colorado at Boulder, Colorado, from June 24—July 20 is classified by the NSF as a Summer Institute, but for college teachers only.

JOINT SUMMER SEMINAR, Canadian Mathematical Congress and
Theoretical Physics Division of the Canadian Association of Physicists,
The University of Alberta, Edmonton, Alberta, August 12—30, 1957.

We hope that a complete announcement of the Seminar can be made
about February 15, 1957. However, the present announcement covers in
resume almost all pertinent information.
Congress Research Lectures (Two lectures and a seminar each week)

A. D. Alexandrov University of Leningrad
Philip Hall Subjects Cambridge University
D. H. Lehmer to be University of California, Berkeley
Jean Dixmier announced Institute Henri Poincaré
E. P. Wigner later Princeton University

Research Lectures in Theoretical Physics (Three lectures a week)

T. D. Lee Fundamental Particles and Columbia University
their Interactions
P. Morrison Low Energy Nuclear Physics Cornell University
E. N. Adams Solid State Theory Westinghouse Research
Laboratories, Pittsburgh

Congress Instructional Lectures (Five lectures a week)

Leo Moser Introduction to the Theory University of Alberta
of Numbers
Abraham Robinson An Introduction to Mathe-
matical Logic University of Toronto
A. W. Tucker Theory of Games Princeton University
Hans J. Zassenhaus Introduction to Lie Algebras McGill University

Instructional Lectures in Theoretical Physics (Three lectures a week)

W. T. Sharp Quantum Theory of Angular Atomic Energy of Canada Ltd.,
Momentum Chalk River
T. Y. Wu Scattering Theory National Research Council, Ottawa
J. D. Jackson High Energy Processes McGill University
(Lecturer to be Solid State Theory announced later)

Accommodation and board will be available at the university resi-
dence at three dollars and a half a day.

Reduced rail rates within Canada will be available to those who at-
tend the Seminar and to members of their families who accompany them.
Announcement about fees will be made later; in the past the fee has been ten dollars.

Financial assistance will be extended to staff members of and gradu-
ate students in Canadian universities.

Inquiries regarding accommodation and board should be addressed to: Professor E. S. Keeping, University of Alberta, Edmonton, Alberta.

Other inquiries should be sent to the appropriate one of the following addresses: Canadian Mathematical Congress, Secretariat, Chemistry Building, McGill University, Montreal, Quebec: Theoretical Physics
Division of the Canadian Association of Physicists, N. R. Steenberg, Secretary-Treasurer, Dept. of Physics, University of Toronto, Canada.

JOINT CONGRESS, Canadian Mathematical Congress and Theoretical Physics Division of the Canadian Association of Physicists, the School of Fine Arts, Banff, Alberta, September 1-7, 1957.

The following is a resume of the programme of the fourth Canadian Mathematical Congress which will be issued about February 15th. The programme of the Theoretical Physicists will be devoted to contributed papers by: Bardon (Illinois), Lee (Columbia), Morrison (Cornell), Adams (Westinghouse Laboratories), and others.

Sunday - September 1. Registration and Welcoming Reception

Monday - September 2. Morning Session: Research Papers;
Panel Discussion on High School Mathematics

Tuesday - September 3. Morning Session: Research Papers;
Session in Mathematics in the University and in Industry

Evening Session: Address by D. H. Lehmer on Modern Computation;
Address by Jean MacDonald on a Problem in Astrophysics

Wednesday - September 4. Trip to Lake Louise and other diversions

Thursday - September 5. Morning Session: Lecture I by H. S. M. Coxeter and Lecture I by A. D. Alexandrov

Evening Session: Conference by Jean Dixmier; Business Meeting of the Congress

Friday - September 6. Morning Session: Lecture II by H. S. M. Coxeter; Lecture II by A. D. Alexandrov

Evening Session: Lecture by Philip Hall Research Papers

Saturday - September 7.

Accommodation and Board will be furnished at the Banff School of Fine Arts and residences under control of the School. Rates for two people who will share a twin bedroom and bath will be five dollars daily.

Reduced Rail Rates within Canada will be available to those who attend the Congress and to members of their families who accompany them. Announcement about fees will be made later; in the past the fee
has been two dollars.

Financial Assistance will be extended to staff members of and graduate students in Canadian universities.

Inquiries regarding accommodation and board should be addressed to: Professor D. R. Crosby, Department of Mathematics, University of Alberta, Edmonton, Alberta, or Professor D. D. Betts, Department of Physics, University of Alberta, Edmonton, Alberta.

Other inquiries should be sent to the appropriate one of the following addresses: Canadian Mathematical Congress, Secretariat, Chemistry Building, McGill University, Montreal, Quebec; Theoretical Physics Division of the Canadian Association of Physicists, N. R. Steenberg, Secretary-Treasurer, Dept. of Physics, University of Toronto, Canada.

INTERNATIONAL MATHEMATICAL UNION. The election of the Union of Soviet Socialist Republics to membership has been announced.

RECIPROCITY AGREEMENT WITH THE SOCIÉTÉ MATHÉMATIQUE DE FRANCE (Further information.) An item on this subject appeared in the December 1956 issue Notices. The essence of the agreement as far as members of the American Mathematical Society are concerned is that members of the Society may join the Société Mathématique de France by paying dues of $2 which should be forwarded to the Headquarters Offices of the American Mathematical Society. Professor Marcel David, the Treasurer of the Société Mathématique de France, has pointed out in comment upon the December item that, in the first place, the dues of $2 apply only to members of the American Mathematical Society who are living during the current year on the North American continent, and, in the second place, that although the dues of $2 will hold throughout 1957, the amount will almost surely be increased to $3 for 1958, because the dues of the regular members living in France have already been increased and will be again.

We take this opportunity to urge members of the American Mathematical Society to consider becoming members of the Société Mathématique de France under this reciprocity agreement. They will receive the Bulletin of the Société Mathématique de France as a privilege of membership. In view of present publication costs and subscription prices for American mathematical journals, this seems to be an unusually valuable journal privilege in relation to the price.

TWELFTH ANNUAL MEETING OF THE ASSOCIATION FOR COMPUTING MACHINERY. The Association for Computing Machinery has accepted an invitation from the University of Houston to hold its Twelfth
Annual Meeting on the campus at Houston, Texas, on June 19-21, 1957. Local arrangements will be under the direction of Mr. James Steward, Standard Oil Company of Texas, Houston 1, Texas.

Contributed papers concerned with all phases of analog and digital computation are solicited. Each person wishing to have a paper considered for the contributed program is requested to submit to the Program Committee by March 1, 1957, four typewritten copies of a 100-word abstract and four typewritten copies of a summary of the paper. The amount of time which can be allotted to each contributed paper is limited to fifteen minutes.

Abstracts and summaries should be sent to: J. E. Robertson, Chairman, ACM Program Committee, University of Illinois, Urbana, Illinois.

The summary should be of sufficient length to permit evaluation by the Program Committee; a minimum of three typewritten pages is suggested. Papers for the program will be selected by the Program Committee after March 1. It will not be possible to consider papers which are not submitted in quadruplicate or which arrive after the deadline.

A FRENCH VERSION OF THE RUSSIAN-ENGLISH VOCABULARY. Many readers of the Notices are aware that the Society publishes a Russian-English Vocabulary containing approximately 2,800 words and including a short sketch of Russian grammar. This publication is designed to assist mathematicians in reading mathematical texts in Russian. It is a paper-bound pamphlet of 66 pages and selling at a list price of $1.20 with the usual 25% discount to members of the Society. Recently the General Secretary of the International Astronomical Union requested permission to publish a French version of the Russian-English vocabulary in Astronomical Newsletters. This permission was granted with the proviso that a limited number of quantities of this translation would be furnished to the AMS for sale to members. A few copies of this vocabulary are now available at the Headquarters Offices. The list price will again be $1.20 with the usual 25% discount to members.

The translation was prepared under the direction of Dr. V. Kourganoff.

RUSSIAN TRANSLATIONS. Suggestions are invited concerning outstanding papers in Russian and other less widely read languages for translation into English under the translation project conducted by the Society with the support of the National Science Foundation. Please send the suggestions to RUTRAP, American Mathematical Society, 190 Hope Street, Providence 6, Rhode Island. In the main, recent papers are wanted (that is, with nominal publication dates in 1955 and 1956), but if anyone feels that an older paper should be translated, he should send the
suggestion in even if he has done so before. The Translations Committee of the Society will appreciate remarks about the reasons for translating each paper and the degree of its desirability.

RESEARCH PROBLEM SECTION OF THE BULLETIN. Attention is again invited to the Department of Research Problems which was established about three years ago in the Bulletin. This department publishes statements of problems of which the solutions would make a significant contribution to mathematical research. Problems which are suitable for publication in the problem department of the American Mathematical Monthly are not accepted in this department. The problems desired are those for which the solutions will take the form of research papers to be accepted on their merits and published in research journals. Only problems of which the solutions are unknown to the authors should be submitted.

Each problem should carry the name of the author and a brief title, and should be written in a single paragraph in a form similar to an abstract, in nontechnical language if possible. Relevant references should be included. All problems intended for publication should be sent to Professor B. J. Pettis, Tulane University, New Orleans, Louisiana.

AN INDEX TO THE AMERICAN JOURNAL OF MATHEMATICS covering Volumes 51 through 75 (1929–1953) is now available. The format is the same as that of the Journal. The Index consists of 63 pages and is priced at $2.50. The publishers also state that a limited quantity of the Index to Volumes 1–50 is still available. The price is $3.00. Orders should be sent to the Johns Hopkins Press, Baltimore 18, Maryland, U.S.A.

THE PACIFIC JOURNAL OF MATHEMATICS. The Board of Governors of The Pacific Journal of Mathematics announces the appointment of two new editors to serve from January 1, 1957: Professor A. L. White­man, University of Southern California (replacing Professor R. P. Dilworth, California Institute of Technology), for a period of four years, and Professor R. A. Beaumont, University of Washington (replacing Professor Edwin Hewitt of the same university), for a period of three years. The Board has authorized an increase in the size of the Pacific Journal of Mathematics in order to reduce the time elapsing between receipt and publication of research papers.

COMMITTEE ON TRAVEL GRANTS OF THE NAS–NRC DIVISION OF MATHEMATICS. The allocation of funds, available through government agencies to support attendance of American mathematicians at sci-
cientific meetings abroad, and the supplementing of such funds through private and industrial donations, received attention at a recent meeting of the Executive Committee of the Division of Mathematics, National Academy of Sciences—National Research Council, in view of the approaching International Congress of Mathematicians to be held in Edinburgh, Scotland, August 7-14, 1958.

The Executive Committee voted to reorganize and expand the present Committee on Travel Grants in the Division to six members to insure that all segments of mathematical life in the United States are represented adequately. This committee was given the following functions:

1. **Collection of Information.** Ordered lists of candidates for travel grants would be invited by the committee from each mathematical group in the United States which has a natural right to be represented at the Congress. In addition the Committee would invite federal agencies which allocate contracts or grants for mathematical research, namely, the Office of Ordnance Research, the Office of Naval Research, the Air Force Office of Scientific Research, the Atomic Energy Commission, and the National Science Foundation, to indicate the extent of travel support to be accorded individual mathematicians from the contracts and grants they already have in effect. This information would be assembled by the committee by the fall of 1957.

2. **Advisory.** Using the information it has collected, the committee would stand ready to advise government agencies on the disposition of funds made available for assisting scientists to travel abroad on scientific missions.

3. **Administration.** The committee would administer and allocate travel grants from the Travel Fund of the Division of Mathematics, this fund to be raised by the Division through private or industrial subscriptions.

To permit intelligent planning and the wise and just use of available funds, mathematicians, contemplating attendance of the International Congress at Edinburgh in 1958 with support from funds under contracts or grants executed by the aforementioned agencies, are requested to take up this matter with the appropriate contracting agency as soon as their plans become definite. To secure adequate time to complete all necessary arrangements by the fall of 1957, such requests should be submitted several months in advance of this period.

**IMMIGRATION VISAS FOR EXCHANGE VISITORS.** The following information has been provided by the Division of Mathematics of the NAS–NRC.
A recent change has been made in the basic law governing the issuance of immigration visas to exchange visitors in the passage of Public Law 555 by the 84th Congress, Chapter 356, 2d Session, S. 2562. The new law reads as follows:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 201 of the Act of January 27, 1948 (Public Law 402, Eightieth Congress, 62 Stat. 6, as amended by section 402 (f) of the Immigration and Nationality Act, 66 Stat. 163) entitled "An Act to promote the better understanding of the United States among the peoples of the world and to strengthen cooperative international relations" is amended by inserting "(a)" after the section number and by adding a new paragraph reading as follows:

"(b) No person admitted as an exchange visitor under this section or acquiring exchange visitor status after admission shall be eligible to apply for an immigrant visa, or for a nonimmigrant visa under section 101 (a) (15) (H) of the Immigration and Nationality Act, or for adjustment of status to that of an alien lawfully admitted for permanent residence, until it is established that such person has resided and been physically present in a cooperating country or countries for an aggregate of at least two years following departure from the United States: Provided, That upon request of an interested Government agency and the recommendation of the Secretary of State, the Attorney General may waive such two-year period of residence abroad in the case of any alien whose admission to the United States is found by the Attorney General to be in the public interest: And provided further, That the provisions of this paragraph shall apply only to those persons acquiring exchange visitor status subsequent to the date of the enactment hereof."

Approved June 4, 1956.

Persons who were in exchange-visitor status on June 4, 1956, or who departed as exchange visitors prior to that date will not be subject to the restrictions on immigration provided in Public Law 555, unless they subsequently acquire this status. It should be noted, however, that nothing in the proviso exempting persons from the two-year residence abroad requirement relieves them in any way from the obligation to remain bona fide exchange visitors throughout the duration of their stay in the United States. Applications for extensions of stay and program transfers for exchange visitors will be reviewed and granted on the basis of evidence of intention to return abroad and resume residence and professional activity there. In the opinion of the Department, exchange visitors who do
not plan to remain abroad two years before returning to the United States as immigrants should depart from the United States at the expiration of the time for which they are currently admitted.

Questions of sponsors of Exchange-Visitor Programs on Public Law 555 may be directed to: Director, International Educational Exchange Service, Department of State, Washington 25, D.C.

Section 101 (a) (15) (H) of the Immigration and Nationality Act restricts applications for nonimmigrant visas to:

"An alien having a residence in a foreign country which he has no intention of abandoning (i) who is of distinguished merit and ability and who is coming temporarily to the United States to perform temporary services of an exceptional nature requiring such merit and ability; or (ii) who is coming temporarily to the United States to perform other temporary services or labor, if unemployed persons capable of performing such service or labor cannot be found in this country; or (iii) who is coming temporarily to the United States as an industrial trainee."

NEWS FROM THE NATIONAL REGISTER OF SCIENTIFIC AND TECHNICAL PERSONNEL. The Mathematical Sciences Section of this project, which was established in the National Science Foundation Act of 1950, is maintained by the Society at its Headquarters Offices under NSF sponsorship. (This is the project from which emanates the questionnaires accompanied by the huge specialties lists.) The NSF has now released a bulletin based upon the information so far gathered by the National Register. The bulletin contains a number of items which might be of interest to the readers of the Notices.

The Register now contains data on more than 94,000 scientists, of whom 5,400 are listed as mathematicians. More than 41% of the employed scientists in the Register have a Ph.D. degree and fewer than 2% of the scientists reported no degree.

Scientists at the doctorate level in 1954–1955 reported a median salary of $7,000. The highest median salary was for Ph.D. physicists and meteorologists—$7,850. The lowest salaries were for psychologists—$5,850. But the data on salaries are weakened by the fact that the chemists and chemical engineers did not report salary information.

About one half of the employed scientists worked in industry and about one third were employed by educational institutions. The remainder were employed by the Government.

Research, development, or field exploration was the primary function of half the scientists. Only 16% of the scientists reported that their ma-
jor function was teaching, but 40% of the mathematicians reported that their function was teaching (probably 15 years ago this figure would have been 80% rather than 40%). There are about 7,000 women scientists included in the Register's total of 94,000. Ten percent of the mathematicians are women.

A limited number of copies of the complete bulletin are available at the National Science Foundation, Washington 25, D.C.

DR. JOHN VON NEUMANN CITED FOR EXTRAORDINARY SCIENTIFIC ACCOMPLISHMENT. The American Meteorological Society has presented its award for Extraordinary Scientific Achievement to Dr. John von Neumann, who was President of the American Mathematical Society from 1950–1951. The award states that Dr. von Neumann was honored "for his farsighted contribution to the science of meteorology and the national interests in developing the modern, high-speed electronic computer with meteorological application as an ultimate aim, and for his support and encouragement in organizing the world's first research group in numerical weather prediction." The numerical weather prediction research group mentioned in the award was established at the Institute for Advanced Study as the Electronic Computer Project.

The American Meteorological Society award for Extraordinary Scientific Accomplishment has been presented four times since it was originated in 1951. The first award in 1951 honored Professor Hurd C. Willett at Massachusetts Institute of Technology. In 1953 Professor Carl-Gustaf Rossby of the University of Stockholm received the award, and in 1955 Mr. Jerome Namias of the United States Weather Bureau was similarly honored.

BACKLOGS OF CERTAIN MATHEMATICAL RESEARCH JOURNALS. Information on this important matter is being published twice a year in the Notices, with the kind cooperation of the respective editorial boards. Helpful suggestions were received from various editors after the first presentation (August 1956 issue), and an attempt has been made here to make use of this advice.

It is important that the reader should interpret the data with full allowance for the wide and sometimes meaningless fluctuations which are characteristic of them. The waiting times in particular are affected by many transient effects, which arise in part from the refereeing system. Extreme waiting times as observed from the published dates on which papers were received in final form by the editors, are particularly tricky. For that reason, in the table below no data on extremes are presented.
<table>
<thead>
<tr>
<th>Journal</th>
<th>No. issues per year</th>
<th>Approx. no. pages published currently per year</th>
<th>Approx. no. backlogged</th>
<th>Backlog 5/31/56 (Pages)</th>
<th>Backlog 11/30/56 (Pages)</th>
<th>Estimated Waiting time (Months)</th>
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<tr>
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<td>—</td>
<td>4 6 8</td>
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<tr>
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<td>492</td>
<td>185</td>
<td>7</td>
<td>11</td>
<td>15 19</td>
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<tr>
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<td>96</td>
<td>75</td>
<td>7</td>
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<td>8 10</td>
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<td>Canadian Jnl.</td>
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<td>NRa</td>
<td>12</td>
<td>13c</td>
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<tr>
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<tr>
<td>Quarterly of App. Math.</td>
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<td>450</td>
<td>NRa</td>
<td>—</td>
<td>14</td>
<td>14d</td>
<td>11 13 14</td>
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</tbody>
</table>

Footnotes:  

- NR means that either no response was received to a request for information, or else that the response contained data in another form.  
- Issues are undated; these data based on fourth number of the 1956 volume, which was arbitrarily counted as the December 1956 issue.  
- Issues are now undated; these data based on "Fall 1956" issue which was arbitrarily counted as the September 1956 issue.  
- "Notes" (shorter papers).

Some of the columns in the table above are not quite self-explanatory, and here are some further details concerning how the figures were computed.

Column 2. These figures are rounded off to the nearest 50, and are in some cases projections from incomplete 1956 volumes. Considered as forecasts for 1957, they may be in error by as much as 10 to 20 percent.

Column 3. For each journal, this is the estimate as of November 30, 1956, of the total number of printed pages which will have been accepted by the next time that manuscripts are to be sent to the printer, but which nevertheless will not be sent to the printer at that time. (It should be noted that the number of pages received but not yet accepted are being ignored.)

Column 4. Estimated by the editors (or the Editorial Department of the American Mathematical Society in the case of the Society's journals), and based on these factors: manuscripts accepted, manuscripts received...
and under consideration, manuscripts in galley, and rate of publication. (The data in this column were not specifically requested from the editors when the present table was prepared, although they will be in the future. This explains the blanks.)

Column 5. The first quartile ($Q_1$) and the third quartile ($Q_3$) are presented, to give a measure of the dispersion which will not be too much distorted by meaningless extreme values. The median (Med.) is used as the measure of location. The observations were made from the latest issue received in the Headquarters Offices before the deadline date for this issue of the Notices. The waiting times were measured by counting the months from receipt of manuscript in final revised form, to nominal month of issue (not counting in month of receipt but counting in month of issue). It should be noted that when a paper is revised, the waiting time between receipt by editors of the final revision and its publication may be much shorter than is the case for a paper which is not revised, so these figures are to that extent distorted on the low side.

A NOTE FROM THE EDITOR. The Editor of the Notices invites suggestions and comments from the readers for making the Notices more useful. Recommendations for new departments and new features will be particularly welcome.

There are, to be sure, certain limitations on what can be done in the way of making sudden major changes in the Notices. There are of course budgetary boundaries which must be observed. There are also certain aspects of the content and the scheduling which are not directly under the control of the Editor. These relate to the programs in particular, but also in some degree to the department called "News Items and Announcements" in which these remarks are appearing. Most of the items in "News Items and Announcements" are inserted by request, and usually the requests originate with officers and committee members of the Society, or the National Academy of Science-National Research Council, or representatives of Institutional Members of the Society. Such requests should not be refused without good reason. For example, in the December issue, sixteen news items appeared. All but four of them were published by request of officers, committees, or the NAS-NRC. Of the excepted four, three were concerned with Government fellowship opportunities and one was inserted by request of the Social Science Research Council.

The publication schedule of the Notices is a basic matter of Society policy and is under the direct cognizance of the Council. It was reviewed at some length by the Council at the December 1956 meeting in Rochester. The Council decided that the present schedule should be retained, but that advance announcements of future meetings should be incorporat-
ed in each issue. Some of these will be found in the present issue.

The present schedule is based on a closing date of about six weeks (with due allowance for holidays) before the first meeting announced. Two of the weeks are taken up by the Associate Secretaries and Headquarters Offices in setting up the program and preparing camera copy for the printer. The printer is then given two weeks to receive the copy, fit the job into his schedule, and complete the mailing. Finally, two weeks are allowed for the copies to pass through the mails. The bulk of them is mailed second class, and this type of mail service is likely to be slow; but first-class mail would cost the Society well over three times as much as second class. (The added expense would be nearly $2,000 a year.) There is at present a first-class mailing to a restricted list consisting of department heads and other key individuals, for posting on bulletin boards.

It is the opinion of the Editor that the allowance of four weeks for the publication process cannot reasonably be reduced. Incidentally, there is little or no correlation between the size of an issue and the time of delivery to addressees. For example, the office work is set up so that camera copy preparation on the News Items and Personal Items sections generally is carried out while the scientific programs are being organized by the Associate Secretaries. The time allotted for printing is mainly waiting time for insertion into a busy printing schedule and is not directly connected with the size of the issue. The passage through the mails is apparently not prolonged when an issue is unusually large.

But the fact that some aspects of the scheduling and content of the Notices are matters of policy which relate in a larger way to the services offered by the Society to the mathematical community, should not discourage anyone from making suggestions for the improvement of this journal. There are doubtless many changes relating to new features, and editorial changes in present ones, which could be put into effect without policy considerations on the part of the Council or the Trustees, and these governing bodies of the Society would undoubtedly give a careful hearing to any major suggestions. Thus the invitation to submit criticisms, comments, and recommendations which was given at the beginning of these remarks is now repeated, with the hope that there will be some interesting discoveries in the Editor's mailbox in the near future.
PERSONAL ITEMS

Assistant Professor R. P. Gosselin of the University of Connecticut has been awarded a grant from the National Science Foundation for research in Fourier series.

A National Science Foundation Postdoctoral Fellowship has been awarded to Dr. F. E. Browder of Yale University.

The National Science Foundation has announced grants to the following scientists for support for attendance at scientific meetings abroad: Mr. W. D. Lambert, Attendance at Subcommittee of Csagi on Simultaneous Measurements of Gravity Acceleration, Paris, France; and to Professor M. A. Biot, Dr. F. N. Frenkel and Professor R. D. Mindlin, Attendance at IXth International Congress on Applied Mechanics, Brussels, Belgium.

The National Science Foundation has announced grants in mathematics to the following institutions, to support studies by the professors indicated: Antioch College, J. H. Blau; Carleton College, K. O. May; Catholic University of America, Eugene Lukacs; University of Chicago, A. A. Albert, A. L. Putnam, and Andre Weil; Columbia University, R. V. Kadison, E. R. Kolchin, I. M. Singer, and in the Bureau of Applied Social Research, R. D. Luce; Duke University, J. J. Gergen; University of Illinois, H. R. Brahana, and in the Digital Computer Laboratory, A. H. Taub; Louisiana State University, E. V. Schenkman and H. G. Jacob, Jr.; University of Michigan, R. L. Wilder; University of Minnesota, Eugenio Calabi, L. W. Green, and Hidehiko Yamabe; New York University, Avron Douglis and Wilhelm Magnus; Northwestern University, W. M. Boothy; Oregon State College, A. T. Lonseth; Purdue University, C. F. Kossock; University of Southern California, A. L. Whiteman; University of Tennessee, Knoxville, O. G. Harrold, Jr.; University of Washington, C. B. Allendoerfer; University of Wisconsin, R. H. Bruck and P. C. Hammer.

Mrs. Fortunata V. Altmayer of Ford Instrument Company has accepted a position as engineer with American Bosch Arma Corporation, Garden City, New York.

Dr. D. B. Ames of the University of New Hampshire has accepted a position as research mathematician with Hughes Aircraft Company, Culver City, California.

Dr Fred Assadourian of the Federal Telecommunication Laboratories has accepted a position as senior engineer with Radio Corporation of America, New York, New York.

Mr. C. M. Braden of the University of Minnesota has been appointed to an assistant professorship at Macalester College.

Assistant Professor A. I. Dhar of Illinois Wesleyan University has
been appointed to an assistant professorship at Valparaiso University.

Dr. Gus DiAntonio of Carnegie Institute of Technology has accepted a position as aerodynamicist with Bell Aircraft Corporation, Buffalo, New York.

Professor Arthur Erdelyi of California Institute of Technology is on leave and has been appointed to a visiting professorship at Hebrew University, Jerusalem, Israel.

Dr. Jacob Feldman of the Institute for Advanced Study has been appointed to a visiting assistant professorship at Columbia University.

Mr. H. N. Hadley of the Naval Powder Factory has accepted a position as senior reliability analyst with the AVCO Manufacturing Company, Lawrence, Massachusetts.

Dr. L. O. Heflinger of the University of California, Berkeley, has accepted a position as mathematician with the Ramo-Wooldridge Corporation, Los Angeles, California.

Dr. J. L. Katz of the Polytechnic Institute of Brooklyn has been appointed to an assistant professorship at Rensselaer Polytechnic Institute.

Professor Harry Langman of Detroit Institute of Technology has been appointed to a professorship at Ohio Northern University.

Dr. J. A. Larrivee of Worcester Polytechnic Institute has accepted a position as mathematical analyst with Lockheed Aircraft Corporation, Burbank, California.

Mr. J. G. Leghorn of the University of Colorado has accepted a position as engineer with the Glenn L. Martin Company, Denver, Colorado.

Professor J. W. Lindsay of Texas Technological College is on leave of absence for 1956–57.

Dr. M. E. Mahowald of the U. S. Marine Corps has accepted a position as engineer with General Electric Company, Evendale, Ohio.

Dr. Hazleton Mirkil of Dartmouth College is on leave and is at the Institute for Advanced Study.

Dr. G. C. Nooney of Hughes Aircraft Company has accepted a position as research scientist with Lockheed Aircraft Corporation, Palo Alto, California.

Dr. H. J. Reiter of the University, Reading, England, has been appointed a lecturer at the University of Durham, Newcastle upon Tyne, England.

Mr. E. S. Robbins of the University of California, Berkeley, has been appointed to an assistant professorship at Arizona State College.

Dr. Saul Rosen of Wayne State University has accepted a position as manager, Eastern Applied Mathematics Section, Electrodata Division of Burroughs Corporation, Philadelphia, Pennsylvania.

Dr. Josef Schmid has been appointed a teacher at the Privatgymna-
sium Stella Matutina, Vorarlberg, Austria.

Professor Emeritus L. L. Silverman of Dartmouth College has been appointed to a visiting professorship at the University of Houston.

Dr. C. V. L. Smith of the Office of Naval Research, London, England, has been appointed chief of the Computing Laboratory, Aberdeen Proving Ground, Maryland.

Dr. M. D. Springer of the Naval Ordnance Plant, Indianapolis, has accepted a position as senior operations analyst with Technical Operations, Incorporated, Fort Monroe, Virginia.

Dr. F. B. Thompson of Los Angeles, California, has accepted a position as project engineer with General Analysis Corporation, Santa Monica, California.

Dr. S. M. Ulam of the Los Alamos Scientific Laboratory is on sabbatical leave and is at Massachusetts Institute of Technology.

Dr. F. J. Wagner of the U. S. Army has accepted a position as analyst with the Midwest Research Institute, Kansas City, Missouri.

Miss Marjorie Watson of Chattanooga, Tennessee, has accepted a position as engineer with Westinghouse Electric Corporation, Baltimore, Maryland.

Dr. L. W. Wells of New York University has accepted a position as stress analyst with Eastern Engineering, Hackensack, New Jersey.

Mr. J. T. Yamada of the University of Toronto has been appointed a lecturer at McGill University.

Assistant Professor F. R. Yett of Long Beach State College has been appointed to an assistant professorship at the University of Texas.

The following promotions are announced.

Kurt Bing, Rensselaer Polytechnic Institute, to an associate professorship.

W. T. Guy, Jr., University of Texas, to an associate professorship.

Haim Reingold, Illinois Institute of Technology, to a professorship.

E. S. Wolk, University of Connecticut, to an assistant professorship.

The following appointments to instructorships are announced.

California Institute of Technology: Mr. Jerome Sacks; University of Chicago: Mr. R. S. Palais; Columbia University: Dr. E. J. Taft; University of Connecticut: Mr. Arthur Radin; University of Dallas: Rev. T. L. Demen; DePaul University: Dr. G. L. Weiss; Illinois Institute of Technology: Mr. W. S. Mahavier; University of Maryland: Miss Dora E. Kearney; University of Southern California: Dr. J. S. Maybee.
NEW PUBLICATIONS


Bancroft, T. A. See Bozivich, H.

Baron, J. R. The binary-mixture boundary layer associated with mass transfer cooling at high speeds. (Technical Report 160.) Naval Supersonic Laboratory, Massachusetts Institute of Technology, 1956. 280 pp.


Bateman, H. See Bennett, A. A.

Beckenbach, E. F. See Modern mathematics for the engineer.


Berk, A. D. Cavities and waveguides with inhomogeneous and anisotropic media. Cambridge, Massachusetts Institute of Technology, Research Laboratory of Electronics, 1955. 2 + 58 pp.

Bernays, P. See Hilbert, D.

Bickley, W. G. See Temple, G.


de Broglie, L. See Daudel, R.


1956. 11 + 171 pp. 14.00 DM.
Choquet, G. See Bouligand, G.
Fedorova, P. M. See Lebedev, A. V.
Görtler, H. See 50 Jahre Grenzschichtforschung.
Harner, H. L. See Rider, P. R.
Hartley, H. O. See Bozivich, H.
Hoheisel, G. *Gewöhnliche Differentialgleichungen*. (Sammlung Göschens,
Hölder, E. See Carathéodory, C.
Huntsberger, D. V. See Bozivich, H.
Jacobi, C. G. J. Canon arithmeticus. Berlin, Akademie-Verlag, 1956. 432 pp. 46.00 DM.
Jefimow, N. W. Differentialgeometrie; Integralgeometrie. Leipzig, Teubner, 1956. 44 pp. 1.80 DM.
Kaloujnine, M. See Bouligand, G.
Kamke, E. Das Lebesgue-Stieltjes Integral. Leipzig, Teubner, 1956. 6 + 226 pp. 20.00 DM.
Khintchine, A. Kettenbrüche. Leipzig, Teubner, 1956. 6 + 96 pp. 5.40 DM.
Kiessler, F. Nomographisches Rechnen. Essen, Girardet, 1956. 190 pp. 9.80 DM.
Laurmann, J. A. See Robinson, A.
Lehmann, G. See Touchais, M.

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Lum, M. D. See Rider, P. R.


Milne, W. E. See Bennett, A. A.


Morrice, G. G. See Klein, F.

Motchane, L. See Bouligand, G.

Müller, K. H. See Schmieden, C.

Murphy, G. M. See Recent advances in science.


Nemyčkiǐ, V. V. See Aleksandrov, P. S.


Samarskiĭ, A. A. See Budak, B. M.

v. Schlippe, B. *Strömung von Flüssigkeiten mit temperaturabhängiger Zähigkeit (Kühlung von Ölen).* Cologne, Westdeutscher Verlag, 1956. 44 pp. 11.70 DM.


Schmieden, C., and Müller, K. H. *Die Strömung einer Quellstrecke im Halbraum—eine strenge Lösung der Navier-Stokes-Gleichungen.* Cologne, Westdeutscher Verlag, 1956. 29 pp. 8.80 DM.


Shamos, M. H. See *Recent advances in science.*

Sielaff, K. *Einführung in die Theorie der Gruppen.* Frankfurt am Main, Salle, 1956. 2 + 82 pp. 5.80 DM.


Symonds, G. H. *Linear programming: the solution of refinery problems.*
*Table of square roots of complex numbers.* (Numerical Computation Bureau, Report No. 10.) Tokyo, 1956. 21 pp.  
Thirring, W. *Einführung in die Quantenelektrodynamik.* Vienna, Deuticke, 1955. 12 + 122 pp. 17.50 DM.  
Tihonov, A. N. See Budak, B. M.  
Tollmien, W. See 50 Jahre Grenzschichtforschung.  
Warmus, M. See Łukaszewicz, J.  
THE WE’RE SORRY DEPARTMENT

Two errors occurred in the list of Visiting Foreign Mathematicians as submitted to us by the National Academy of Sciences–National Research Council and published in the December 1956 issue of the Notices. We are pleased to make the following corrections:

<table>
<thead>
<tr>
<th>Name</th>
<th>Home Country</th>
<th>Host Institution</th>
<th>Period of visit</th>
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<td>GHAFFARI, A.</td>
<td>Iran</td>
<td>American University; National Bureau of Standards</td>
<td>Sept. 1956</td>
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<td>PAUC, Christian Y.</td>
<td>France</td>
<td>Purdue University</td>
<td>Nov. 1956</td>
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