

## NEWS AND NOTICES

### Personal Items

*Readers are invited to submit to the Treasurer of the Institute news of interest*

Dr. George T. Duncan has been appointed Assistant Professor in the Department of Mathematics at the University of California, Davis.

Dr. Benjamin Epstein, Consultant, Palo Alto, California, has been appointed to a Professorship at the Technion-Israel Institute of Technology, Haifa, Israel.

Dr. Richard A. Groeneveld has joined the Statistical Laboratory at Iowa State University as an Associate Professor.

Dr. Chien-Pai Han has been promoted from Assistant Professor to Associate Professor with the Statistical Laboratory at Iowa State University.

Dr. David Jowett has left Iowa State University to accept a position with the University of Wisconsin, Green Bay.

Dr. William J. Kennedy has been promoted to Assistant Professor with the Statistical Laboratory at Iowa State University.

Dr. Abel Mexas has been promoted to Assistant Professor with the Statistical Laboratory at Iowa State University. Dr. Mexas currently is on assignment in Mexico.

Dr. Wiktor Okta, formerly Associate Professor of Mathematical Statistics, is now Associate Professor of Applied Mathematics at the College of Agriculture, Lublin, Poland, beginning September 1970.

Frank Proschan is now a Professor in the Department of Statistics, Florida State University.

Dr. Vincent Sposito has been promoted to the rank of Assistant Professor with the Statistical Laboratory at Iowa State University.

Dr. James Walsh, Professor of Statistics and Psychology at Iowa State University, is on leave during the academic year as a Social Science Research Fellow for advanced study in mathematics and statistics at Stanford University.

Lin Woo of the New York Scientific Center of International Business Machines Corporation was honored by The Franklin Institute for outstanding work in mathematics. He received the Louis E. Levy Medal and the Journal Premium specifically in recognition of a paper entitled "An Algorithm for Straight-Line Representation of Simple Planar Graphs."

---

### New Members

**Badenius, Duncan**; Systems Design Engineer, Fairchild Hiller.

**Bass, Jerome S.**, M.S., (New York University); Teaching Fellow, New York University.

**Durling, Frederick C.**, Ph.D., (Southern Methodist University); Assistant Professor, Medical University of South Carolina.

**Gregory, Lowell D.**, Ph.D., (Southern Methodist University); Staff Specialist, LTV Aerospace Corporation.

**Griffiths, Robert Charles**, Ph.D., (University of Sydney); Lecturer, University of Sydney.

**Gupta, Bhisham Chand**, M.Sc., (University of Windsor); Graduate Student, University of Windsor.

**Nair, Rama Chandran**, M.Stat., (Indian Statistical Institute); Graduate Student, University of Windsor.

**Park, Robert E.**, Ph.D., (Rensselaer Polytechnic Institute); Major, United States Air Force Academy.

**Pore, Michael D.**, M.S., (Texas Technological College); Part Time Instructor, Texas Technological University.

**Turnball, Bruce W.**, B.A., (Cambridge University); Research Assistant, Cornell University.

**Yohai, Victor J.**, Ph.D., (University of California, Berkeley); Professor Adjunto, Universidad Nacional de la Plata.

---

## THE INSTITUTE OF MATHEMATICAL STATISTICS

### 1971 COUNCIL

Patrick Billingsley (1971)  
Department of Statistics  
University of Chicago  
Chicago, Illinois 60637

Lincoln Moses (1972)  
Department of Statistics  
Stanford University, Sequoia Hall  
Stanford, California 94305

Donald L. Burkholder (1971)  
Department of Mathematics  
Westfield College  
London N.W.3, England

Frederick Mosteller (1973)  
2 Divinity Avenue, # 311  
Cambridge, Massachusetts 02138

Herman Chernoff (1973)  
Department of Statistics  
Stanford University, Sequoia Hall  
Stanford, California 94305

Emanuel Parzen (1973)  
Department of Statistics  
State University of New York  
Buffalo, New York 14214

James Durbin (1972)  
London School of Economics  
Houghton Street, Aldwych  
London W.C.2, England

John Pratt (1972)  
Harvard Business School  
Harvard University  
343 Morgan Hall  
Boston, Massachusetts 02163

J. L. Hodges, Jr. (1971)  
Department of Statistics  
University of California  
Berkeley, California 94720

C. R. Rao (1973)  
Indian Statistical Institute  
203 B.T. Road  
Calcutta, India

Mark Kac (1971)  
Department of Mathematics  
Rockefeller University  
66th Street and York Avenue  
New York, New York 10021

Charles Stein (1972)  
Department of Statistics  
Stanford University, Sequoia Hall  
Stanford, California 94305

## FELLOWS OF THE IMS

Elected by the Council

25 August 1970

Banerjee, Kali S.  
 Bartholomew, David J.  
 Bell, Charles B., Jr.  
 Berk, Robert H.  
 Blumenthal, Robert M.  
 Brown, Lawrence D.  
 David, Herbert T.  
 Eaton, Morris L.  
 Fabian, Vaclav  
 Huber, Peter J.  
 Kampe de Fariet, J.

Lamperti, John W.  
 Marshall, Albert W.  
 Ney, Peter E.  
 Port, Sidney C.  
 Puri, Madan L.  
 Rota, Gian-Carlo  
 Stone, Charles J.  
 Studden, William J.  
 van Ryzin, John R.  
 Veinott, Arthur F., Jr.  
 Yahav, J. A.

---

## REPORT OF THE PRESIDENT FOR 1970

A number of key officers of the Institute had terms of office which expired this year. We were fortunate in having Leo Katz agree to another term as Executive Secretary, through December 1973, and George Resnikoff as Treasurer through December 1972. By staggering the expiration dates, we can hope in the future not to be faced with the possibility of having to replace two such officers in the same year.

We are also lucky in having Ingram Olkin succeed Z. W. Birnbaum as Editor of the *Annals* from July 1970 through June 1973. A committee headed by W. J. Hall selected the new Editor, and this committee also spent much time considering possible reorganization of the *Annals*. This principal activity of the IMS faces several serious problems, including the tremendous burden of work on a single Editor in our present organization, the steadily increasing volume of papers, and the continual birth of other journals in the field. The committee and the new Editor hope that appropriate changes can be instituted soon. I am convinced that prompt and vigorous innovations will be needed if IMS and the *Annals* are to maintain their preeminence in mathematical statistics and probability in the face of these problems.

The IMS has no permanent secretariat such as the larger ASA and AMS do. Consequently, the existence of the Institute depends on the above-named and other officers (Program Secretary Hogg, Managing Editor Smith) for their efficient, selfless, and usually thankless performance of what are often time-consuming and frustrating chores. Also crucial is the willingness of over a hundred Institute members to serve on our various committees and to undertake such essential activities as Al Marshall and Ron Pyke did when they ran the Seattle *Annals* office during the transition between Editors this summer. The employers of all these people give considerable support, financial and otherwise.

You can read of many of the activities of IMS during the last year in the reports of these officers. It would take too long for me to report the work of all of our committees and representatives, but I would like to mention a few examples. The first volume of "Selected Tables in Mathematical Statistics," edited by H. L. Harter and D. B. Owen with the assistance of a Committee of twelve, was published during the summer, and a second volume is being planned. The Committees on Summer Research Institutes and Teaching Institutes, with M. L. Puri and F. A. Graybill as respective Chairmen, have been appointed and have begun their planning. We continue to participate in several COPSS activities, notably the Visiting Lecturer Program which is operated by IMS and in which D. B. Owen succeeds Ingram Olkin as head, and the preparation by Zelen's

committee of volumes containing papers of historical interest. Among the CBMS activities in which we take part, the long-range planning of an information bank in the mathematical sciences will have major impact on all of us.

The IMS Council spent considerable time discussing and deciding on policies regarding such matters as investments, joint meetings, and the possibility of participating in a life insurance plan for our members as ASA does. On the last, strong cases were made on both sides of the question as to whether the benefits of the insurance to some members warrants involvement of a professional society in such an activity; the Council voted, finally, to proceed with the plan, which is administered by a trust representing several such societies. The Council also decided to dedicate the 1970 *Annals* to the memory of Will Feller.

A Harold Hotelling Fund, to be used to further the activities of the Institute, has been established by the Council with a gift from a former student of Professor Hotelling.

A number of IMS members have complained that their areas of our subject have not received sufficient recognition in the *Annals*, in meetings, in representation on committees, etc. I would like to assure those members that the Council, as well as Hall's committee, has given considerable thought to the changes we can make in the *Annals* and other Institute functions, to improve this situation. A motion introduced by Professor Hall at the 1970 Business Meeting addressed to the broadening of the Institute's interests for just this purpose, was passed unanimously. I hope the dissatisfied members can be reassured that changes, which always take more time than we would like, are under way, and that it may be to their best interests not to sever relations with IMS by forming new societies and journals as some have considered doing.

My successor, Bill Kruskal, has participated actively in these matters, most of which are continuing affairs with which he will carry on. A year ago I announced plans for a questionnaire to solicit the members' opinions on the *Annals*, meetings, fellows, etc., but the pressure of other chores prevented getting this out; Bill will have to decide whether or not to pursue this. Also, he has taken the initiative in investigating the possible reactivation of the NAS-NRC Committee on Statistics.

My last chore is the appointment of the Nominating Committee for the 1971 election. The Committee consists of Charles Kraft (Chairman), D. Alling, H. T. David, R. Blumenthal, P. Huber, J. Klotz, J. Sacks, E. Seiden, G. Steck, and S. Zacks.

JACK KIEFER

---

## REPORT OF THE EXECUTIVE SECRETARY FOR 1970

This report will take the form of announcements of a number of actions taken since the last Council meeting in New York City.

1. Statement regarding editorial policy and instructions for authors approved.
2. \$3,500 voted as loan to COCAAHOS changed to \$3,500 advance to "get project going."
3. Approved backing Visiting Lecturer Program for 1970-71 by up to \$5,000 if NSF support does not materialize. ASA was asked to assume half of this backing.
4. Katz was elected Executive Secretary; Resnikoff, Treasurer. Both will serve extensions of present terms of office, Katz to end of 1973, Resnikoff to end of 1972.
5. Editor was directed to dedicate current volume of the *Annals* as a memorial to Feller, with photograph and/or short biography.
6. Financial management policy referred to Committee on Operations, for deliberation and recommendations.
7. No action taken on nominations for National Science Medal.
8. 1971 Annual Meeting will be held in Fort Collins, August 23-27.
9. Olkin elected Editor of the *Annals of Mathematical Statistics* for a three-year term, commencing 1 July 1970.

10. Owen named to replace Olkin as chairman of Visiting Lecturer Program. He will complete the 1970-71 program and prepare plans and a proposal for the 1971-72 program.
11. The group life insurance plan, suggested by the New York Life Insurance Co. and previously adopted by ASA, was adopted by a 2-1 mail ballot.
12. Approved investment of IMS funds in banks, Treasury notes, or bond, at discretion of Treasurer, but not investment in mutual funds.

LEO KATZ

---

### REPORT OF THE PROGRAM SECRETARY FOR 1970

The 32nd Annual Meeting (123rd meeting) of the Institute of Mathematical Statistics was held at the Statler Hilton Hotel in New York City, August 19-22, 1969, in conjunction with meetings of the American Statistical Association and the Biometric Societies (ENAR and WNAR). H. D. Brunk (University of Missouri) was chairman of the Program Committee and J. Nadler (Bell Telephone Laboratories, Inc.) was assistant secretary in charge of local arrangements. The Wald lectures were delivered by Herbert Robbins (Columbia University), the Rietz lecture was given by Aryeh Dvoretzky (Hebrew University), and a special invited paper was presented by H. P. McKean, Jr. (Rockefeller University).

The Central Regional Meeting (124th) was held at Southern Methodist University in Dallas, Texas, April 8-10, 1970, in conjunction with a meeting of the American Statistical Association. Peter W. M. John (University of Texas) was program chairman and C. H. Kapadia (Southern Methodist University) was assistant secretary.

The Eastern Regional meeting (125th) was held at the University of North Carolina, Chapel Hill, North Carolina, May 5-7, 1970 in conjunction with meetings of the Biometric Society (ENAR), the American Statistical Association, and the Second Chapel Hill Conference on Combinatorial Mathematics and Its Applications. James Dickey (SUNY, Buffalo) was program chairman and Gordon Simons (University of North Carolina) was assistant secretary.

The regional Associate Program Secretaries during this year were B. M. Kirkjian (U.S. Army Materiel Command) and Myles Hollander (Florida State University), both from the Eastern region; J. H. Klotz (University of Wisconsin), Central region; and R. F. Tate (University of Oregon), Western.

To all persons and institutions that have made these meetings possible, the Institute is truly indebted.

ROBERT V. HOGG

---

### REPORT OF THE TREASURER FOR 1970

This report covers the period July 1, 1969 to June 30, 1970.

The Institute had 2843 paid members as of June 30, 1970. This number will increase slightly by the end of the calendar year as some presently delinquent members return to the fold.

This number represents a loss of 14 members. However, the number of regular members increased by 74 as student members who completed their studies shifted to regular status. Since regular members pay higher dues, there was a slight increase in receipts from dues, despite the slight decrease in total membership. For comparison with last year, the June 30 (fiscal year-end) figures are given:

	1969	1970
U.S.-Canada members	1835	1909
Outside U.S.-Canada members	530	528
Student members	386	301
Institutional members	82	82
Life members	24	23
Total	2857	2843

The Institute had 2047 paid subscribers at fiscal year-end, an increase of 72 over the previous year.

The Institute showed an excess of income over outgo amounting to \$28,520 compared with a gain of \$27,225 the previous year. This is the result of a gain in inventory of \$8,849, \$6,137 from interest and \$13,534 profit from operations. A detailed auditor's report follows this summary.

It is predicted that the coming fiscal year will show a substantial excess of income over expenditures.

In response to Council direction, two gifts which the Institute has received have been placed in a special reserved fund. One of these, given in honor of Dr. Harold Hotelling, has been designated the Hotelling Fund. The other, a bequest from the estate of the late Paul Dorweiler, has been designated the Dorweiler Fund.

GEORGE RESNIKOFF

We have examined the balance sheet of the Institute of Mathematical Statistics at June 30, 1970 and the related statements of operations and changes in surplus for the fiscal year then ended. Our examination was made in accordance with generally accepted auditing standards but it did not include all of the tests of the accounting records and other auditing procedures which we considered necessary, in that, under the terms of our engagement we did not test the physical existence or the pricing of the inventories.

Because of the materiality of the inventories in relation to the total assets, and, as we did not apply generally accepted auditing procedures with respect to the inventories, we are unable to express an independent accounts opinion on the accompanying financial statements.

EDWARD P. CLARK, C.P.A.  
*Clark, Mitchell & Co.*

## INSTITUTE OF MATHEMATICAL STATISTICS

*Balance Sheet**June 30, 1970*

Exhibit A

*Assets*

## Current Assets

Cash in banks—Checking accounts .....	\$9,180.08	
Receivables:		
Dues .....	\$52.00	
NSF Grant Y006757 .....	1,722.09	
Executive Sec.—Michigan State University ..	399.75	
Total Receivables .....		2,173.84
Inventories—At cost:		
<i>Annals</i> .....	\$72,740.31	
Indexes .....	3,391.36	
Total Inventories .....		76,131.67
Investments .....		260,791.85
Total Current Assets .....		\$348,277.44

## Other Assets

Deferred agency charges .....	1,353.75	
Total Assets .....		<u>\$349,631.19</u>

*Liabilities, Unearned Revenue and Surplus*

## Current Liabilities

Accounts payable .....	\$36,438.69	
Advance payments and collection for others .....	3,181.50	
Payroll taxes payable .....	767.79	
Accrued expenses .....	6,460.00	
Total Liabilities .....		\$46,847.98
Unearned portion of 1970 memberships and subscriptions .....		61,273.00
Surplus—Exhibit C .....		241,510.21
Total Liabilities, Unearned Revenue and Surplus .....		<u>\$349,631.19</u>

# INSTITUTE OF MATHEMATICAL STATISTICS

*Statement of Revenue and Expenditures  
For the Fiscal Year Ended June 30, 1970*

Exhibit B

**Revenue**

Dues .....		\$55,123.11
Subscriptions .....	\$56,497.99	
Less: Agency charges .....	2,432.75	
Net .....		54,065.24
Sales of back issues of <i>Annals</i> .....	\$16,438.46	
Less: Cost of back issues .....	7,027.04	
Net .....		9,411.42
Sales of indexes .....	332.00	
Less: Cost of indexes sold .....	138.28	
Net .....		193.72
Advertising .....		90.00
Interest on investments .....		6,136.46
Miscellaneous .....		442.39
Total Revenue .....		\$125,462.34

**Expenditures**

Publication expenditures		
Printing of <i>Annals</i> .....	\$79,151.98	
Less: Page charges .....	19,384.66	\$59,767.32
Maintenance and shipping of <i>Annals</i> and indexes .....		6,335.42
Binding .....		2,321.20
Editorial expenditures .....		7,829.50
Total .....		\$76,253.44

**Treasurer's and Secretary's Office**

Salaries .....	\$10,071.59	
Stationery and supplies .....	609.65	
Postage .....	846.34	
Telephone .....	667.01	
IBM charges .....	1,468.05	
Employee expenditures .....	910.83	
Miscellaneous .....	30.15	14,603.62

**General Expenditures -**

Special printing and mailing .....	\$1,000.00	
Meetings—Net of reimburse .....	1,047.40	
Accounting .....	1,200.00	
Contributions to other organizations .....	1,650.00	
Membership and index drive .....	559.63	
Visiting Scientist Program .....	628.74	6,085.77

Total Expenditures ..... 96,942.83

Excess of Revenue over Expenditures ..... \$28,519.51



INSTITUTE OF MATHEMATICAL STATISTICS

Statement of Changes in Surplus  
For the Fiscal Year Ended June 30, 1970

Exhibit C

Surplus—July 1, 1969 .....	\$209,226.20
Add	
Excess of revenues over expenditures for the fiscal year ended June 30, 1970—Exhibit B. ....	28,519.51
Contributions .....	3,764.50
Surplus—June 30, 1970 .....	<u>\$241,510.21</u>

Changes in Allocated Surplus

	Dorweiler Fund	Hotelling Fund	Severance Pay	Reserve for Life Members	Reserve for Replacement of <i>Annals</i>	General Purposes
Balance—July 1, 1969	\$	\$	\$	\$2,757.50	\$9,298.40	\$197,170.30
Excess of Revenues over Expenditures— Exhibit B .....						28,519.51
Contributions .....						3,764.50
Increase in reserve for <i>Annals</i> replacement .....					12,156.75	(12,156.75)
Adjustment for severance pay .....			2,250			(2,250.00)
Hotelling Fund .....		1,028				(1,028.00)
Dorweiler Fund .....	3,600					(3,600.00)
	<u>\$3,600</u>	<u>\$1,028</u>	<u>\$2,250</u>	<u>\$2,757.50</u>	<u>\$21,455.15</u>	<u>\$210,419.56</u>

### REPORT OF THE EDITOR FOR 1970

During the year July 1, 1969–June 30, 1970, a total of 515 manuscripts were submitted to the *Annals*, amounting to 8557 typewritten pages. Compared with the preceding year, this is an increase of about 13% in the number of manuscripts and of about 12% in the number of pages. Of the 515 papers submitted, 95 have been accepted, 198 have been rejected, 14 have been withdrawn, and 208 were still pending on August 1, 1970.

A statement of editorial policy was formulated after considerable exchange of opinions among the members of the Editorial Staff, and with the approval of the IMS Council. This statement is now being printed on the first page of every issue of the *Annals*.

Z. W. BIRNBAUM

---

### REPORT OF THE MANAGING EDITOR FOR 1970

1. *Printing arrangements.* The question of foreign printing was regurgitated at the last Council meeting. Since the Council has discussed many times the pros and cons of sending the *Annals* to a foreign printer, I will not rehash them here. In September 1969, I contacted William Clowes and Sons, London, and the Jerusalem Academic Press for new estimates. Paul Meyer and others had previously been in touch with both firms. Meanwhile, Waverly Press proposed a novel solution to our dilemma: they would subcontract the composition, i.e., typesetting, to a foreign printer, specifically, MacLehose in Scotland, and would continue to handle the printing, distribution of proofs, binding, mailing, etc. In this way we could take advantage of the lower cost of overseas composition and yet maintain a smooth, rapid processing operation with Waverly. Waverly estimated that this subcontracting arrangement would reduce the cost of printing the *Annals* by 10 to 15 percent and would not introduce delays in our printing schedule.

In consultation with Bill Birnbaum, George Resnikoff, and others, it was decided to try this arrangement with Waverly on an experimental basis for the 1970 volume, and to postpone further investigation of overseas printers. With the exception of one or two difficulties with the mailing of proofs from Scotland to Baltimore, causing a delay in the April issue, the new arrangement appears to be working satisfactorily. The saving in subcontracting the composition overseas is at least partially being passed on to the Institute: Waverly has refunded the IMS about \$3,000 for printing the February and April issues. Effectively the per page rate has been reduced from \$37.00 to \$33.30, a ten percent saving, for the first two issues this year.

2. *Waverly Press contract renewal.* As of July 15, Waverly Press had not been able to give me definite information on rates for the proposed 1971 contract because the MacLehose printers' union negotiations for next year had not yet been completed. The new proposed rates will be available by the first Council meeting. However, Waverly estimated that in the 1971 contract the per page rate will be the same as the present rate of \$37.00. Thus the saving in subcontracting the composition to Scotland will just compensate for the usual annual increase in Waverly's rates in 1971.

3. *Mathematical Offprint Service.* The effect of the Mathematical Offprint Service on the *Annals* appears to be negligible. The MOS receives galley proofs and 50 reprints of each article from Waverly Press. The number of reprints that are actually mailed to MOS subscribers usually varies from 1 to 20, with an average of 5 or 6 copies of each *Annals* article being mailed to MOS subscribers.

4. *Abstracts.* Bob Hogg and I have not made any recommendations on changing the printing of the abstracts since we were awaiting the results of Jack Hall's committee on the state and the future of the *Annals*. We have agreed to recommend that the present 50-day deadline for contributed abstracts (in person) be advanced to 65 days.

You may have noticed that abstracts in the *Annals* are now numbered in the style of the Math

Society *Notices*. That is, abstracts contributed in person at the 125th meeting in Chapel Hill are numbered 125-1, 125-2, ... . All by-title abstracts are numbered in the style 70T-1, 70T-2, ... .

5. *Miscellaneous*. Effective with the December 1969 issue, each issue of the *Annals* is copyrighted by the Institute of Mathematical Statistics.

This year, *Biometrics* was added to the list of journals which publish tables of contents on an exchange basis with the *Annals*.

Waverly Press has arranged to provide, at the author's request and expense, covers on the 50 gratis reprints effective with the October 1970 issue.

Last year, I reported a growing backlog of manuscripts awaiting publication after acceptance. This has decreased and, in fact, a temporary "negative backlog" of manuscripts reduced the size of the August 1970 issue to the smallest in years.

In addition to the slightly different type now being used for the *Annals*, you may have noticed a change in paper. It is less expensive, just as durable, and many agree that it makes for easier reading than the old paper. Comments on the new look of the *Annals* have ranged from "... first time in years I've been able to read an article without getting a headache!" to "... terrible! Let's go back to the old paper!"

In dedicating this year's volume of the *Annals* to Feller, I suggest that the appropriate dedication pages be printed in the December issue in the special section with the annual table of contents. When the volume is bound, it is hoped the dedication pages will appear at the front with the annual table of contents.

K. J. C. SMITH

---

### MINUTES OF THE FINAL MEETING, 1970 COUNCIL

The meeting was chaired by Jack Kiefer, President. The 1970 Council members present were: Patrick Billingsley, Lucien M. LeCam, Gerald J. Lieberman, and Lincoln Moses; proxies present were: Robert A. Wijsman for Burkholder, Shanti Gupta for Hodges, A. Dempster for Pratt, and Joseph Gani for Stein. Olkin was present in his capacity of Editor, with term of office from July 1, 1970 and his seat on the Council vacated. Hald, Kac, and Lindley were absent. In addition to Olkin, Executive Committee members present were Jack Kiefer, William H. Kruskal, Leo Katz, George J. Resnikoff, Robert V. Hogg and K. J. C. Smith.

President Kiefer opened the meeting at 7.50 p.m. and called for the minutes of the two Council meetings held in 1969 at New York City. These had been circulated to the Council members by mail; Council voted to accept the circulated minutes as read.

President Kiefer made some general comments regarding important tasks accomplished by the IMS in the past year and those which loom on the horizon for the coming year; his full report will appear in the February *Annals*. The Executive Secretary reported some 13 actions of the Council since the last annual meeting, all approved by mail ballot. These will be included in his report for the February *Annals*. The report of the Program Secretary including acknowledgment of services rendered by various individual members was approved as presented, including concurrence of the Council in those acknowledgments.

The Treasurer's report was distributed, read, and accepted. Last year's favorable outlook continues to be the case for the coming year; however, in anticipation of further increases in costs of printing, etc., his recommendation that dues be kept where they are now was concurred in by the Council.

A brief report by Birnbaum as Editor through June 30, 1970, was submitted and accepted. The report of the Managing Editor indicated some economy in printing costs by subcontracting composition to a foreign printer. He anticipates, however, that this gain will be completely wiped out by an increase in printing rates for the coming year. Olkin as new Editor announced his panel of Associate Editors. These will appear in future issues of the *Annals*.

Motions made and approved in the course of the reading of officers' reports include:

1. By Kruskal, to charge the Committee on Operations to make suggestions to provide additional services to members.
2. By Resnikoff, to provide "reasonable severance pay" to Resnikoff's secretary at the end of his (and her) term of office, and
3. To authorize the Treasurer to continue his present policy of investing in U.S. Government obligations, eschewing mutual funds.

The report of the Committee on Special Invited Papers for the 1971 annual meeting was distributed and accepted; copies will be made available to new members of the 1971 Council. D. L. Burkholder is to be invited to present the Wald Lectures; H. Kesten, the Rietz Lecture; and S. Karlin, a Special Invited Paper. The report of the Nominating Committee appointed by President W. Hoeffding last August had been distributed to all members on May 20, 1970.

The Committee on Operations was inactive in the past year; no report was submitted. The report of the Committee on Fellows was distributed and its ambiguities were somewhat resolved by an explanation of the chairman of the Committee; the Council accepted the longer of the two lists submitted. Twenty-two new Fellows were elected by the Council; their names were read at the subsequent Business Meeting and will appear in the February *Annals*.

The IMS Committee on Summer Research Institutes reported on a proposed Institute to be held July 1971 in Bloomington. The Committee on Summer Institutes for Teachers has not taken any action and submitted no report. The Committee on Mathematical Tables reported that Volume I is currently being distributed to fulfill advance orders. The report was accepted by the Council and the suggestion by CMT that the IMS Council give H. L. Harter a special vote of thanks, was approved. Harter reported on a request from the publisher for an increase in price to compensate for added costs of type-setting in the first volume. The co-chairmen were asked to negotiate a lump-sum settlement for these added costs, not to exceed \$1500; such expenditure was approved by the Council. The program of the 1970 Annual Meeting in Laramie was accepted as the report of the Program Committee. The Committee on Individual Membership reported on two steps taken by the Committee to recruit individual members and recommended two steps which might be taken in future. The report was accepted and President-Elect Kruskal agreed to appoint a committee to deal with the two recommended procedures. The Committee on Institutional Members has not been active in the past year and had no report.

The Joint IMS-University of Chicago Press Committee on Monographs had no formal report. During the year, Volume III in the Monograph Series appeared under the title, "Sequential Identification and Ranking Procedures" by Bechhofer, Kiefer, and Sobel.

Olkin reported for the Committee on the Supplement to the *Annals* Index and distributed a draft report making a number of recommendations. After lengthy discussion, the Council approved preparation of an "automated" author index, with a committee to be appointed by Kruskal to proceed under a cost limitation of \$2000. A second committee is to be appointed to experiment with a subject index and with an index of the Steenrod-type based upon the *Mathematical Reviews* and a classification system to be developed. The Committee on the Visiting Lecturer Program in Statistics reported on the 1969-1970 Program and that D. B. Owen will take over the directorship of the program, replacing Olkin. It was further approved that the Council make \$5000 available in advance to the Visiting Lecturer Program annually and request ASA to agree to a \$2500 annual advance as a matching contribution to freeing the program from delays occasioned on the Potomac.

The Committee for Liaison with the 1970 Combined Directory of Statisticians reported that the Directory which is being prepared and mailed by ASA and which was originally promised for June 1970 is now scheduled to appear about December. The Committee was requested to look into the possibility of an annual directory for IMS alone. Later, the Treasurer noted that he could produce such a list from his address file and agreed to do so on an experimental basis. The Committee on Liaison with the Berkeley Symposium reported that its work consisted mainly in suggesting names of speakers and asked to be discharged. The Committee on Liaison for the

1971 ISI meeting in Washington, D.C. reported on the present state of arrangements for that meeting. The report of the Committee to Establish Policy on Gifts, Bequests, and Prizes was distributed with the request that the report be kept confidential.

The report of the Committee for Selecting an Editor and Restructuring the *Annals*, noting completion of its first charge and requesting that the second charge be held over to the new Council, was accepted. The report of the Committee for Liaison with IASPS was accepted; a later revision is incorporated in the attached report.

Hoeffding, Kiefer, and Katz represented IMS at the meeting of COPSS held in New York City on August 21, 1969. A full report of the discussion and actions (by W. T. Federer) appears in the *American Statistician*, June 1970.

CBMS met in Oregon in August and in San Antonio in January in conjunction with meetings of the mathematical societies. Rubin represented IMS at the Oregon meetings and had no report. McDonald represented IMS in San Antonio and reported on some items of interest to IMS.

COCAAHOS reported activities during the past year will lead to production of the Barlow and Proschan volume soon, to be followed by a volume by Gart (Editor) on "Readings in Statistics," another by Eisenhart, "Early Literature on Theory of Errors" with an introduction and annotations, and a volume by Barnard on "Significant Literature on  $2 \times 2$  Tables," with an introduction. ASA and IMS have each made advances of \$3500 to this committee to support its publication activities.

The report of the representative on the Committee for International Cooperation in Mathematics Education of CBMS was noted, as was the previously-circulated report of the IMS representative to the ISI meeting in London in 1969.

Representatives of IMS to the Joint AMS-IMS Committee on Translations, the Mathematics Division of NRC, the ISO/TC-69 Advisory Committee on Statistical Nomenclature, and the AAAS had little to report, and nothing requiring Council action.

The report of the CBMS meeting in San Antonio noted planning for a National Information System in the Mathematical Sciences which is slated to become an important undertaking of the mathematical community in the future. Katz was asked to communicate with Botts to find out if NISIMS would welcome a representative appointed by IMS.

The Council approved meetings in the Eastern Region at Blacksburg in 1972, at Ithaca in 1973, and at Tallahassee in 1974, and Western Regional meetings in Monterey in 1971, in Seattle in 1972, and Albuquerque in 1973. Central Regional meetings have already been approved for 1971 at Columbia, Missouri and 1972 at Ames. The European Region is to be continued on a very loose rein. The next Annual Meeting will be held in Fort Collins, August 23-26, 1971. No commitment was made for annual meetings beyond that date. A motion that Hogg work with IASPS on joint arrangements for the Fort Collins meeting was approved.

The complaints questionnaire was referred to the President-Elect, without recommendation.

Since the life insurance plan for members of the Institute had been approved by mail ballot of the Council, it was further approved that a settlor's agreement be signed by Jack Kiefer, acting for the IMS.

The hour being very advanced, all new business was referred to the incoming Council and the meeting was adjourned at 2.30 a.m.

LEO KATZ

---

## MINUTES OF THE 1970 BUSINESS MEETING AT LARAMIE

The meeting was called to order by President Jack Kiefer at 4.30 p.m. Ballots were distributed to a few members who had not cast their ballots earlier. The minutes of the 1969 Business Meeting in New York City were read and approved without change. It was announced that, in concordance with the nominations of the Committee on Fellows, the 1970 Council had elected to fellowship the following: K. S. Banerjee, D. J. Bartholomew, C. B. Bell, Jr., R. H. Berk, R. M. Blumenthal,

L. D. Brown, H. T. David, M. L. Eaton, V. Fabian, P. J. Huber, J. Kampe de Fariet, J. W. Lamperti, A. W. Marshall, P. E. Ney, S. C. Port, M. L. Puri, G.-C. Rota, C. J. Stone, W. J. Studden, J. R. van Ryzin, A. F. Veinott, Jr., and J. A. Yahav.

President Kiefer announced that a new Editor of the *Annals* had been selected by the Council and had taken office on July 1, 1970. Professor Ingram Olkin was introduced as the new Editor and he announced the names of his panel of Associate Editors.

Professor Donald Anderson reported for the tellers that Professor Raj C. Bose had been elected the new President-Elect of the Institute to serve in that capacity for 1971 and to succeed as President for 1972. The new Council members elected are: Herman Chernoff, Frederick Mosteller, Emanuel Parzen, and C. R. Rao, all with terms extending through 1973, and James Durbin to complete the vacated term of Olkin, extending through 1972.

Kiefer announced that the Wald Lectures would be delivered by Professor D. L. Burkholder, that the Rietz Lecture would be delivered by Professor H. Kesten, and that a Special Invited Paper would be delivered by Professor Samuel Karlin, all of these to be presented at the 1971 meeting in Fort Collins.

President Kiefer continued his comments by noting that the complaints of the members regarding their treatment at the Statler-Hilton Hotel at the 1969 Annual Meeting had apparently born some fruit, as attested by a letter from the *new* general manager. He announced that the Nominations Committee for the coming year would consist of Charles Kraft, chairman, David Alling, Robert Blumenthal, Peter Huber, Jerry Klotz, Jerry Sacks, Esther Seiden, George Steck, and Shelly Zacks.

Program Secretary Hogg reported on his activities for the year since the last Business Meeting; in full detail, his report will appear in the February *Annals*. Among other things, he announced the 1971 Annual Meeting will be held in Fort Collins, Colorado in conjunction with meetings of the ASA and Biometrics Society and of IASPS. Regional meetings for 1971 will be at Pennsylvania State University for the Eastern Region, the University of Missouri for the Central Region, and probably in Monterey for the Western Region, with the last meeting subject to confirmation. Summaries of the reports of the Editor, the Managing Editor, and the Treasurer were presented; the full reports will appear in the February *Annals*.

At this point, the meeting was turned over by Kiefer to Professor William Kruskal, President for 1971. Kruskal mentioned that the Hall committee on Restructuring the *Annals* was still working on its report for submission to the 1971 Council, meeting on the next day, and discussed a move to reconstitute the National Committee on Statistics under NRC auspices.

Rubin expressed his dissatisfaction that sessions of IMS were scheduled at the same time as the AMS business meeting. There followed some discussion, pro and con, on the importance of Contributed Papers in a meeting.

Resnikoff moved a vote of appreciation to Professor Guenther and members of his Local Arrangements Committee; accepted by acclamation.

A motion by Hall, that the membership go on record to encourage the President and Council to seek means to broaden the scope of the Institute, and to ensure greater participation by members in some of the subfields of what, for historical reasons, we call "mathematical statistics," was accepted unanimously.

There being no response to a call for further new business, the meeting was adjourned at 5.25 p.m.

LEO KATZ

---

## MINUTES OF THE OPENING MEETING, 1971 COUNCIL

The meeting was called to order by President William Kruskal at 7.35 p.m. All members of the Executive Committee were present, namely, Kruskal, Bose, Katz, Resnikoff, Hogg, Olkin, and Smith. Billingsley, Moses, and Parzen were Council members present in person, with Wijsman present as proxy for Burkholder, Gupta proxy for Hodges, and Gani proxy for Stein. Four of the

five newly-elected Council members, Chernoff, Durbin, Mosteller, and Rao were absent, as were also Kac and Pratt. Proxies had been received from three other nominees for Council membership, none of whom were elected.

The Treasurer presented his usual long list of dues-delinquent members. After deletion of two names from the list, a motion to drop from membership those remaining on the list was adopted.

The two new members elected to the Committee on Fellows with terms 1971-1973, inclusive, were P. Bickel and J. Gani. The President will later name one of the two members of the Committee with terms expiring in 1971 as Chairman of the full committee of six members. Some of the items which follow were changed in their order of presentation, but are presented here in the logical framework of the agenda.

Some 14 items were referred by the 1970 Council for action by the incoming 1971 Council. In addition, there was the delayed report of the Committee on *Annals* reorganization; this was treated first and is probably the most important single action of the meeting. Hall, as chairman of the committee, presented a draft proposal containing some seven items with explanation. After some discussion, Olkin moved that the Council record approval in principle of the draft proposal presented, and request the committee (a) to continue work along present lines and (b) to solicit reaction from the membership; the motion was approved unanimously. Smith moved that the Council ask the Hall committee to consider and recommend an appropriate time to appoint a search committee for the new editor called for under the restructuring plan; carried. Smith then moved that the Council express its appreciation of the work of the Hall committee; carried.

In accordance with economies due the change in type-setting (so that this work is now performed by a Scottish firm) and anticipated offsetting higher costs of production of the *Annals*, the new contract arrangements with Waverly Press are likely to be more extensive this year. Resnikoff moved that the Council authorize the Treasurer and Managing Editor to enter into negotiations with Waverly on its behalf; carried.

The 1970 Council has received a report of the Committee on Gifts and Bequests with some recommendations listed on the last page together with a request by the committee that these be kept confidential. Some further discussion in the new Council served to crystalize opinions and Resnikoff moved that the funds received as a bequest from the Dorweiler estate and from the Gift in honor of Professor Hotelling be placed in reserved funds, named respectively the Dorweiler Fund and the Hotelling Fund, and that the principal and any income earned by these funds be used for the aims and purposes of the Institute of Mathematical Statistics; passed unanimously.

It was announced that a request from Puri's Committee to NSF to support Summer Research Institute at Bloomington was received too late by NSF for approval and support in the summer of 1971. Puri was asked to prepare proposals to cover this same activity to go to ONR and other Governmental agencies.

Various means of re-vitalizing the Committee on Individual Members were discussed. President Kruskal will appoint members to such a committee and charge them to develop some relatively routine procedures which may be effectively carried out from year-to-year.

In connection with the discussions of the 1970 Council regarding a committee to proceed with an author-index in some relatively automated manner, and to experiment with various methods to prepare a subject index of the *Annals*, Brian Joiner was invited to discuss "An Author and Permuted Title Index to Selected Statistical Journals" prepared under auspices of the National Bureau of Standards and scheduled to be issued September 17, 1970 as NBS Special Publication 321.

In response to a request of the 1970 Council, it was decided that the Treasurer will issue membership address lists annually.

Because of increasing numbers of contributed papers, especially in the annual meetings, it was moved and carried that the deadline for submission of contributed papers for each meeting be changed from the old requirement of 50 days in advance of the opening of a meeting to approximately 60 days in advance.

The Executive Secretary was asked to express strong interest by IMS in the work of NISIMS and to ask Botts whether that group wishes representation from IMS in its work.

With respect to election procedures, Moses moved that polls close at noon on the first day of each Annual Meeting, with this motion superceding all previous actions by the Council; carried. The Secretary will prepare a digest of procedures for the nominating committee.

The Program Secretary will re-examine questions regarding the frequency and timing of future meetings of the Institute and make recommendations to the Executive Committee, in particular, he will consider the question of whether there should be a summer meeting and an annual meeting each year.

The Council approved continued discussions by Kruskal regarding a National Committee in Statistics under auspices of NRC.

It was moved and carried that IMS should extend indefinitely its policy of cooperation with MOS.

In accordance with a motion presented by Hall and carried by the Business Meeting, the Council directed the President and Program Secretary to ask all committees appointed to observe the principles of that resolution.

Resnikoff moved that the Council authorize 2250 pages for the 1971 *Annals*; carried.

The Program Secretary announced that Leon Gleser would be Program Chairman for the Eastern Regional meeting; Martin Fox, for the Central Region; and A. W. Marshall, for the Annual Meeting. Since the Western Regional meeting has not been firmed up in all details, no Program Chairman has been named. The Program Secretary will make recommendations to the Council later in the year regarding locations for the Annual Meetings in 1972 and 1973.

Parzen moved that the Council recommend to the Nominating Committee that no man be nominated to serve on the Council who has served in this capacity in the previous six years; carried. Two other matters were discussed briefly, with no action taken on either.

In order to recognize the efforts of many members in serving on committees and to provide a means for all members to communicate their thoughts to specific working committees of IMS, the Secretary was directed to prepare (a) full lists of committee members who served in the past year and (b) a list of new committee chairmen (with addresses) for the new year, both lists to be available within three to four months following each annual meeting.

There being no further new business, the meeting adjourned at 11.20 p.m.

LEO KATZ

---

### NEW DIVISION OF STATISTICS AT THE OHIO STATE UNIVERSITY

Formerly operated as a part of the Department of Mathematics at The Ohio State University, Statistics is now formally recognized as a Division of Statistics in the College of Mathematics and Physical Sciences. The staff consists of eight persons: P. O. Anderson, A. M. Barron, J. S. Rustagi, J. Singh, R. C. Srivastava, J. A. Sullivan, D. R. Whitney, T. A. Willke. The existing MS and Ph.D. programs will continue and an undergraduate degree program has been added. For information contact: D. R. Whitney, 231 West 18th Avenue, Columbus, Ohio 43210.