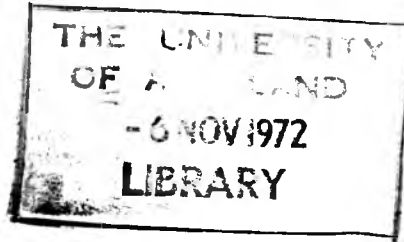




NEWSLETTER

Operational Research Society of New Zealand (Inc.)



1972, OCTOBER

VOL. 9 NO. 1

NINTH ANNUAL REPORT



Operational Research Society of New Zealand (Inc.)

SPECIAL MEETING & ANNUAL GENERAL MEETING

NOTICE

A Special Meeting and the 9th Annual General Meeting will be held as follows:

DATE: 1972 November 14, Tuesday

TIME: 7.30 p.m.

PLACE: Wakefield House, 90 The Terrace, Wellington

A. ADDRESS

"Practising Operational Research in New Zealand".

Mr. Graeme Hollyman, Management Services Manager for Unilever (N.Z.), will deliver a short address on the above topic. The address will be followed by a brief period for discussion.

Operational research with its substantial development costs may not always be justified by the level of benefits derived in the smaller scale of enterprise common in N.Z. What, then in practice is the role of o.r. on the N.Z. scene?

(This address has been arranged by the Wellington Branch)

B. SPECIAL MEETING

It is proposed that Clause 5(e) of the Constitution (cheque signatures) be amended as follows (amendment approved by Council 72 Oct. 5):

delete the final full stop(.)

add

"except that for Branch accounts, any two of four members approved by Council shall be signatories."

There is at present no provision in the Constitution for branches to have accounts and the Incorporated Societies Act requires that a Society's constitution must provide for, inter alia, 'The control and investment of the funds of the society - i.e., banking operation on society's account:'.

The amendment is required to give effect to the following policy for branch finance which was generally acceptable to the branch committees and was adopted by Council on 72 March 8:

- " *1. Each branch to have its own bank account - at least 2 signatories out of 3† to sign; the Signatories to be appointed† by Council.
2. RECEIPTS a. Allocation by Council on an annual basis e.g. \$20 p.a. plus \$1 p.a. per branch member.
- b. Numbered receipts to be issued for receipts from functions.

c. Minor receipts e.g. supper money - blanket receipt to be issued to branch secretary.

- 3. PAYMENTS a. Petty cash account to be operated by Treasurer.
- b. All expenditure within limits of branch bank balance at time of decision to proceed, no Council Control.
- c. All commitments to spend more money than currently held in branch bank account must have Council approval, because it involves a guarantee from the whole society.
- 4. BUDGET Annual budget must be prepared for Council as a condition for 2(a).
- 5. AUDITING Branch receipt book, bank statements, petty cash account, and approved invoices to be submitted for auditing.

(sgd.) A.H. Milkop
Hon. Treasurer.

Notes

- * Constitutional amendment required.
- * It is Council's intention that normally the Branch Committee's nominees for signatories will be the ones, and only ones, appointed."
- † altered in proposed Constitutional amendment.

AGENDA

- 1. Apologies
- 2. The Motion (Pres./Hon. Treas.)

C. 9TH ANNUAL GENERAL MEETING

AGENDA

- 1. Apologies
- 2. Minutes of the last Annual General Meeting (published in Newsletter 8, 2).
- 3. Presentation of the Society Lecture Prize.
- 4. Annual Report and Discussion. (published in the latest Newsletter)
- 5. Matters Arising from the Minutes of the last A.G.M.
- 6. Financial Statement and Discussion (published in the latest Newsletter).
- 7. Subscriptions.
- 8. Election of Officers and 6 Council Members.
- 9. Election of Hon. Auditor.
- 10. General Business.

D. SUPPER

B.K. Campbell
Hon. Sec.
72 Oct. 14



Operational Research Society of New Zealand (Inc.)

NINTH ANNUAL REPORT

FOR THE YEAR 1971 OCTOBER 1 TO 1972 SEPTEMBER 30

This was the first year in which the Annual Conference was held outside Wellington and this development gives an indication of the growth and of the growing maturity of the Society. It has been a year in which the Society has started to look outward rather than inwards and to ask how it can best contribute rather than ask what are the immediate prospects of reward.

This feeling is indicated in several ways. There appears to be a growing awareness of the professional role of the Society. This is illustrated well by the theme of the Conference ... communication between the OR user and practitioner. This theme was further emphasised by the conference after-dinner speech on the marketing of OR, a speech which caused many of us to think deeply about our attitude to the users and to the public. I believe that the speaker's suggestion that we design a 'Marketing Plan' for OR and for the Society is well worth taking up.

Another indication of an outward looking attitude is the movement towards contacts with bodies such as the National Productivity Centre where we believe that we can play an important role.

At its last meeting, Council resolved to make formal application to become a member body of the Royal Society of New Zealand thus forging a link with the scientific community. I am pleased to report that our application was successful.

I would hope that moves to further cooperation with the other side to our discipline-management, will also take place. Perhaps further links with local NZIM divisions might be considered.

One of the most severe problems faced by the Society is that of communication between branches and between members of Council who live away from Wellington. Council has hoped to make the Newsletter a forum for discussion and debate in order to relieve this problem. This channel has not been used as much as it could have been. In another approach to overcome this difficulty Council is recommending that next year finance be budgeted to allow Branch Chairmen outside Wellington to make two trips to Council meetings at the Society's expense. This will unfortunately make a marked impact on the Society's expenditure but it is felt to be necessary in order to accomplish closer integration.

As is customary, the remainder of this report is based upon the reports of the various council subcommittees and of the branch committees.

Membership. The membership of the Society on September 30 totalled 249 including 1 Honorary, 39 Full, 169 Associate, 39 Student members and one Collective member. They were divided among the branches as follows: Auckland 66, Canterbury 52, Wellington 117 and unattached 14. The total represents an increase of 22% over the total one year ago, once again a significant increase.

The Subcommittee has been asked by Council to report on the possibility of defining the criteria for Full Membership more satisfactorily.

Finance. The balance at September 30 was \$679, once again a reasonably satisfactory position; further details of the financial state will be found in the Financial Report which is included as an appendix.

International. Continued contact with IFORS was maintained. The membership of the Federation has grown and now includes USSR and Korea. Administrative and financial responsibility for IFORS International Abstracts was changed at the beginning of 1972 and this has led to problems and delays in distribution to our members.

Public Issues and Awareness. Contact has been made with the recently set up National Productivity Centre and the Society's offer of assistance was accepted. The form of such assistance is being investigated at present.

Education. A survey of OR courses to be offered in 1973 is being undertaken by the subcommittee and some thought has been given to the possibility of forecasting the requirement for OR personnel. There appear to be considerable practical difficulties in the latter task, however I believe that this is a particularly important duty of the Society.

National Events. The Eighth Annual Conference was held in Auckland on September 1st with the theme of Communication between the OR practitioner and the User. It was primarily organised by the Auckland Branch with the cooperation of the National Events Subcommittee and proved to be extremely successful. The Council wish to record their thanks and congratulations to the organising committee for this important milestone in the development of the Society.

A Postal survey of the membership is to be undertaken to discover from the members the sort of services that are wanted and the sort of new developments that members feel should take place.

Publications. Four issues of the Newsletter were produced during the year but despite requests from the Editor it is clear that it is not yet being fully used as an avenue for members' comments. This is to be deplored as communication between members who are widely scattered is required to knit the Society together as a professional group.

Constitutional. Requests for comments or suggestions for constitutional changes to be published and argued in the Newsletter have gone largely unheeded and only a small amendment to the financial structure will be recommended by Council at this time.

Auckland Branch. In addition to running several meetings, the branch took part in the organisation of the Annual Conference. It is with regret that we record the death of Mr. G.S. Holmes, one of the Auckland Committee members.

Canterbury Branch. Five evening meetings were held by the branch and an intensive membership drive succeeded in almost doubling membership during the year.

Wellington Branch. This was the first year's programme organised wholly by the branch. A full series of successful meetings was held.

Council. The subcommittee structure, set up by Council to assist it in particular areas has proved extremely successful. Some changes have been made in their function, and in some cases to their titles, to accommodate the increasing role that the branch committees have accepted in both organising meetings and in providing other facilities for members. The practice of having at the least a member from each Branch as well as a Council member has proved successful although the problems of communication (as always) have proved somewhat a problem.

Acknowledgements. I would like to thank the very active conveners and members of Council subcommittees and the branch committees for the great amount of work they have done during the year to develop the Society in the way that they have.

I would like to personally thank the Vice-President, Secretary and the other members of Council for making this year so rewarding for me as well as so successful for the Society.

G. A. Vignaux
President

APPENDIX TO THE 9TH ANNUAL REPORT

COUNCIL

Six Council meetings have been held (to Sept 28) since the last A.G.M.

President:	Prof. G.A. Vignaux
Vice President:	Prof. L.F. Jackson
Hon. Sec:	B.K. Campbell
Hon. Treas:	Mr. A.H. Milkop
Council Members:	Dr. H. Barr
	Prof. A.D. Brownlie (Can'ty Chairman, co-opted)
	Mr. P.D. Bearsley
	Mr. D.C. Cook (Wgton Chairman)
	Mr. G.E. Dickinson
	Mr. L.E. O'Brien
	Mr. J.L. Scott
	Mr. B.R. Slocombe (Akld Chairman, co-opted)
Hon. Auditor:	Mr. P.D. Hasselberg

COUNCIL SUBCOMMITTEES

Constitutional

Convener: Prof. G.A. Vignaux
Members: Prof. A.D. Brownlie, Mr. D.C. Cook, Prof. L.F. Jackson,
Mr. B.R. Slocombe.

Education

Convener: Dr. H. Barr

Members: Mr. J.A. Jordan, Mr. M.S. Rosser, Mr. J.B.C. Taylor,
Mr. C.W. Walker.

International Affairs

Convener: Prof. L.F. Jackson

Members: Mr. D.C. Cook, Dr. H.G. Daellenbach, Mr. J.A. Gibson

Membership

Convener: Mr. L.E. O'Brien

Members: Mr. M.G. Dodgson, Mr. T.A. Lusk, Mr. B.F. Ross-Murphy,
Miss. K.M. Watson.

National Events

Convener: Mr. P.D. Bearsley

Members: Mr. D.C. Cook, Mr. I.K. Hampton, Mr. T.A. Lusk,
Mr. P.J. McKenzie, Prof. G.A. Vignaux

Public Issues & Awareness

Convener: Mr. G.E. Dickinson

Members: Dr. R.R. Allan, Mr. A.T.G. McArthur, Mr. B.R. Slocombe

Publications

Convener: Mr. J.L. Scott

Editor N.Z. Operational Research: Mr. J.L. Scott

Members: Dr. H.G. Daellenbach, Mr. R.J. Elder, Mr. P.C. Gini.

BRANCH COMMITTEES

Wellington

Chairman: Mr. D.C. Cook

Hon. Sec-Treas: Mr. P.C. Gini

Members: Dr. R.R. Allan, Mr. A.H. Milkop, Mr. C.W. Walker,
Miss K.M. Watson

Auckland

Chairman: Mr. B.R. Slocombe

Hon. Sec: Mr. M.G. Dodgson

Hon. Treas: Mr. I.K. Hampton

Members: Mr. R.J. Elder, Mr. J.A. Gibson, Mr. G.S. Holmes (deceased),
Mr. C.D. Johanson, Mr. K.C. Nutsford, Mr. M.S. Rosser.

Canterbury (to 72 July 27)

Chairman: Prof. A.D. Brownlie

Hon. Sec-Treas: Dr. H.G. Daellenbach

Members: Mr. T.A. Lusk, Mr. A.T.G. McArthur, Mr. J.B.C. Taylor

Canterbury (from 72 Jul. 27)

Chairman: Dr. H.G. Daellenbach

Hon. Sec-Treas: Mr. J.A. George

Members: Mr. R.A. Clements, Mr. T.A. Lusk, Mr. C. Shamway,
Mr. J.B.C. Taylor

OPERATIONAL RESEARCH SOCIETY OF NEW ZEALAND (INC)LIST OF MEMBERSAs at October 1 1972HONORARY MEMBER

Prof R.E. Bellman University of Southern California U.S.A.

FULL MEMBERS

DR R.R. ALLAN	Beca, Carter, Hollings, Ferner	Wellington
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MR B.K. CAMPBELL	Applied Maths Division	"
MR B.S. CAMPBELL	BP (NZ)	"
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MR F.A. COULTER	N.Z. Forest Products	Tokoroa
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MR R.C. WHEELER	State Services Comm.	"

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MR R.V. SEARLE	Bank of New Zealand	"
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PROF. D. VERE-JONES	Victoria University	"
MR C.W. WALKER	Shell Oil	"
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MR C.J. WALLACE	Victoria University	Wellington
MISS K.M. WATSON	Applied Maths Division	"
MR A.G. WHITE	University of Canterbury	Christchurch
CDR. W.R. WILLIAMS	Consultant	Wellington
MR T. WINIATA		Overseas
SEN. SGT. P.C. WOOD	Police National Headquarters	Wellington
MR M.F. WRIGHT	N.Z.Breweries	"
MR Y. YAGYU	Applied Maths Division	"
MR S.P. YOUNG	Social Welfare Dept.	"
MR V.A.W. YOUL	Registered Architect	Auckland
MR W. YOUNGER	Fisher & Paykel Ltd.	"

STUDENT MEMBERS

MR E.J. BAKER	Teachers College	Christchurch
MR C.G. BEATH	University of Canterbury	"
MR B.R. BENSEMAN	"	"
MR J.F. BOSHIER	"	"
MR P.M. CASHIN	"	"
MR D.A. CATER	Victoria University	Wellington
MISS S.K. CHEONG	University of Canterbury	Christchurch
MR G.A. COX	"	"
MR A.D. CRAIG	"	"
MR D.C. DALTON	Victoria University	Wellington
MR D.H. GARDINER	Auckland University	Auckland
MR R.W. GIBBARD	University of Canterbury	Christchurch
MR D.J. GILBERT	Victoria University	Wellington
MR D.J. GREEN	University of Canterbury	Canterbury
MR C.J. HARDLEY	Auckland University	Auckland
MR P. KEAR	Victoria University	Wellington
MISS C.S. KUM	University of Canterbury	Christchurch
MR C.G. LEWIS	Victoria University	Wellington
MR I.C. LIEWERT	University of Canterbury	Christchurch
MR H.A. LIK	"	"
MR E.L. LOO	"	"
MR J.F. LOWINGER	"	"
MR T.W. MARKS	"	"
MISS S.G. MARRIOTT	"	"
MR M.R. MAYSON	"	"

MR I.S. McINTOSH	University of Otago	Dunedin
MR R.J. McMILLAN	University of Canterbury	Christchurch
MR S.F. MILLER	Auckland University	Auckland
MR J.J. MULLIGAN	University of Canterbury	Christchurch
MR R. PODMORE	"	"
MR A.B. ROBSON	"	"
MR J.R. ROGAN	University of Auckland	Auckland
MR P.A. SERGENT- SHADBOLT	"	"
MR B.M. SHARP	Lincoln College	Lincoln
MR R.J. SIMPSON	University of Canterbury	Christchurch
MR D.A. STOTT	"	"
MISS L.J. STRETTON	University of Auckland	Auckland
MR L.I. TEO	University of Canterbury	Christchurch
MR P.H. TRAC	"	"
MR M.J. TURNBULL		U.K.
MR L.S. WAH	University of Canterbury	Christchurch
MR D.R. WOOD	M.O.W.	Wellington

COLLECTIVE MEMBER

THE NEW ZEALAND INSTITUTE OF MANAGEMENT WELLINGTON DIVISION (INC)

PLEASE SEND ANY CORRECTIONS OR AMPLIFICATIONS TO THE MEMBERSHIP SUB COMMITTEE,
P. O. BOX 904, WELLINGTON.

MEETINGS 1971 - 72

NATIONAL CONFERENCE

Theme: 'Communication between the OR user and the OR Practitioner'

72 Sept 1	G. A. Vignaux	'Presidential Remarks'
	R. G. Evans	'OR Exercise or Trivia?'
	R. J. Mortleman	'Computer Simulation of the Woolsale Roster'
	R.T. Andrew	'Interactive Computer Based Linear Program System'
	K. C. Nutsford	'A Game with Simulation'
	M.S. Rosser	'A Three-way Communication Problem in OR Education'
	Panel Discussion	'Communication for OR'
	B.R. Slocombe (Chairman)	
	F. A. Coulter	
	M. C. Forster	
	T. B. Nayler	
	P.J.D. Stanes	
	J. P. Heylen	'Marketing Operational Research'

AUCKLAND BRANCH

71 Nov 9 Panel: 'Education for OR: Past, Present and Future'.
 I. Turner
 M. S. Rosser
 R. Carter
 T. B. Naylor

Dec. 13 B. Brookes 'OR through the eyes of an Industrial Relations Man'

72 Mar 23 A. Scott 'Multiple Regression Theory'
 D. Simons 'Multiple Regression in the timber processing industry'

Jun 27 H. B. Powell 'Application of PERT to refitting Naval Vessels'

Jul 27 P. J. D. Stanes 'Communications for OR'

CANTERBURY BRANCH

71 Nov 8 P. Shannon 'OR applied to artificial breeding'

72 Mar 29 Prof. H. McCallion 'An adaptive system for materials control and Machine Shop Scheduling'

Jun 7 T. A. Lusk 'Management of hydro reservoirs in the N.Z. power system'

July 27 (Annual general Meeting.)
 W. S. Yn 'Job and batch Scheduling'
 M. P. Ong 'Queuing Simulation'
 D. Stott 'Training Schedules for Student Nurses'

WELLINGTON BRANCH

71 Oct 11 Dr. M. Jameson 'Simulation Working for Management with Reference to ICL PROSPER'

Oct 26 Y. Yagyu 'Simulation of a Computer Operating System'

Nov 11 A. Stratton 'OR in the Public Service'

72 Mar 29 (formation of Wellington Branch and AGM of Society)
 G. A. Vignaux 'What is the Society for?'

May 31 M. J. Tarrant 'Automatic Stock Control for Packaged Goods'

Jun 27 Dr. P. Rielly 'Management involvement in OR techniques: Container Simulation example'

July 24 (joint meeting with Work-Study Society)
 L. E. O'Brien, 'Simulation Part 1'
 G. A. Vignaux
 P. Kear

Aug 24 (joint meeting with Work-Study Society)
 L. E. O'Brien 'Simulation - Part 2 : Working Session'
 G. A. Vignaux
 N. Gordon

Sept 20 J. de Verrier 'The Role of Simulation in Management'

Oct 24 J. Heylen 'Marketing Operational Research'



Operational Research Society of New Zealand (Inc.)

STATEMENT OF RECEIPTS AND PAYMENTS FOR YEAR ENDED 30/9/72

<u>RECEIPTS</u>		<u>71/72</u>		<u>70/71</u>
Balance at BNZ @ 1/10/71	500.22		420.18	
less cheques not presented	<u>-14.66</u>	485.56	<u>-45.05</u>	375.13
Cash on hand @ 1/10/71		7.59		1.82
Subscription income		794.50		730.00
International Abstracts (51 subs)		127.50		-
Rotorua/Bay of Plenty Branch Balance		50.31		-
Bellman Dinner & Lunch Receipts		-		500.10
Cocktail Party Receipts		-		42.00
Interest		15.12		10.87
Stratton Dinner		27.80		-
TOTAL RECEIPTS		<u>1508.38</u>		<u>1659.92</u>

Note: subscriptions 71/72 = 212; 70/71 = 166.
(Auck 49; Wgtn. 99; Chch. 36; Other 28).

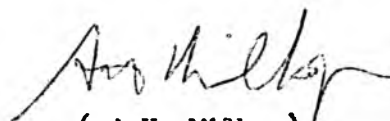
<u>PAYMENTS</u>		<u>71/72</u>		<u>70/71</u>
A. Secretarial: Annual Report	44.00			
Copying	35.35			
Postage	16.74			
Addressograph plate charges	15.33			
Other	<u>16.50</u>	127.92		60.93
B. Treasurer: Copying	10.48			
Postage	15.57			
Other	<u>7.42</u>	33.47		19.67
C. Public Issues:		15.00		25.00
D. Publications: Copying	35.00			
Postage	35.53			
Paper	<u>22.27</u>	92.80		35.61
E. National Events: Copying	12.00			
Other	<u>14.18</u>	26.18		67.40
F. International: Subscription	22.22			
Abstracts	<u>91.72</u>	113.94		29.50
G. Membership: Subscription	25.00			
Other	<u>5.07</u>	30.07		60.00
H. Presidential:	-	-		45.50
I. Education:		5.60		-
J. Miscellaneous: Stratton Dinner	27.50			
Bellman Dinner & Lunch	<u>-</u>	27.50		580.70

PAYMENTS (ctd.)

		<u>71/72</u>	<u>70/71</u>
P. Auckland:	Grant	80.00	
	Other	<u>23.90</u>	-
		103.90	
Q. Wellington:	Grant	142.00	
	Other	<u>22.18</u>	77.67
		164.18	
R. Christchurch:	Grant	69.00	
	Other	<u>7.15</u>	-
		76.15	
Adjustment for outstanding creditors @ 30/9/70		<u>-</u>	<u>+164.79</u>
	TOTAL PAYMENTS	816.71	1166.77
Cash on hand @ 30/9/72		4.52	7.59
Balance @ BNZ @ 30/9/72		692.75	500.22
less cheques not presented		<u>-5.60</u>	<u>-14.66</u> <u>485.56</u>
	TOTAL	<u>1508.38</u>	<u>1659.92</u>

Note (1) Outstanding Subscriptions 71/72 \$ 228.00 (\$ 45 owed for previous years)

Note (2) Outstanding liability for Abstracts approximately \$ 120.


(A.H. Milkop)
Hon. Treasurer

I hereby certify that I have examined the books and accounts of the Operational Research Society of New Zealand (Inc.). The above statement is in my opinion a true and accurate account of the transactions of the Society.

P.D. Hasselberg
(P.D. Hasselberg, A.C.A.)
Hon. Auditor