

ANNUAL REPORT 1981

I. Membership

Membership in the various categories at the end of 1981 is shown below. The figures in the parentheses represent the corresponding figures for 1980.

Honorary Members	:	3 (3)
Ordinary Members		
Institution	:	12 (20)
Individual	:	89 (99)
Junior Members	:	20 (23)

II. Officials

The officials of the Society for 1981 were:

President	:	Prof. Peng Tsu Ann
Vice-Presidents	:	Mr. Chan Kai Yau Prof. Lee Peng Yee Prof. M. J. Wicks
Secretary	:	Prof. Louis H. Y. Chen
Treasurer	:	Dr. Chang Boon Chong
Editor	:	Dr. Cheng Kai Nah
Assistant Secretary	:	Dr. Leong Yu Kiang
Assistant Editors	:	Mr. Chan Sing Chun Dr. Tan Sie Keng
Committee Members	:	Prof. Chew Kim Lin Dr. Chong Chi Tat Dr. Kho Tek Hong Dr. Shee Sze Chin

III. Activities of the Society during the year 1981

(a) Publications

Two issues of Mathematical Medley were published: Vol. 8 No. 2 (December) – Mathematical Education in Singapore and Vol. 9 No. 1 (June).

(b) Lectures

Two lectures were organized jointly with the Department of Mathematics, National University of Singapore.

Date	Title	Speaker
(a) 23 July 1981	Hausdorff's Paradox — or Two for One	Prof. Eric C. Milner, University of Calgary and National University of Singapore
(b) 1 September 1981	Some Amazing Properties of the Function $f(x) = x^2$.	Prof. David M. Goldschmidt, University of California, Berkeley and National University of Singapore

(c) Inter-school Mathematical Competition 1981

The Competition was organized jointly with the Department of Mathematics, National University of Singapore. It was held on 4 July 1981. A total of 127 students from 23 junior colleges and schools took part in the Competition. The members of the Competition Subcommittee were: Prof. S. J. Wilson (Chairman), Dr. Cheng Kai Nah (Secretary), Dr. Chan Kai Meng, Dr. Koh Khee Meng and Dr. Tan Sie Keng.

The results of the Competition were as follows:

Team Results

Position	School	Team Members
1	Hwa Chong Junior College	Ling San Lee Seng Hwang Loh Wing Wah
2	Raffles Institution	Rajesh Ramchand Parwani Phoon Kok Kwang Chan Yuen Chuen
	Temasek Junior College	Ang Kian Seng Kuan Dah Fong Tay Ying Sung
3	Hwa Chong Junior College	Chan Wing Chong Lam Chih Tsung Ramah Sutardja

Individual Results

Position	Competitor	School
1	Ling San	Hwa Chong Junior College
2	Rajesh Ramchand Parwani	Raffles Institution
3	David Ling Leong Hui	National Junior College
4	Lam Chih Tsung	Hwa Chong Junior College
5	Ang Kian Seng	Temasek Junior College

The prize-giving ceremony was held on 1 September 1981. Hwa Chong Junior College was awarded the Singapore Mathematical Society Challenge Shield and Ling San was awarded the Southeast Asian Mathematical Society Prize of S\$250. Members of the first four teams and the four competitors who won the second, third, fourth and fifth positions each received a prize. Prof. David Goldschmidt of the University of California, Berkeley who was visiting the National University of Singapore gave away the prizes.

(d) International Mathematical Conference 1981

An International Mathematical Conference was held at the Kent Ridge Campus of the National University of Singapore from 1 to 13 June 1981. The Conference was jointly organized by the Singapore Mathematical Society and the Department of Mathematics, National University of Singapore, under the sponsorship of Unesco, the International Mathematical Union (IMU), the Mathematical Society of Japan (MSJ), the Southeast Asian Mathematical Society (SEAMS), Lee Foundation, Shell Eastern Petroleum (Pte) Ltd., the National University of Singapore and National Kap (Pte) Ltd. Professors J. W. S. Cassels, S. S. Chern, B. H. Neumann (IMU), Professors K. Ito, Y. Kawada (MSJ) and Professor W. S. Tan (SEAMS) were the advisors to the Organizing Committee. The objective of the Conference was to promote mathematical research in Southeast Asia and to help mathematicians in this region to keep abreast of the recent advances in mathematics.

The first part of the Conference consisted of two workshops, one in ring theory and homological algebra and one in probability theory. The workshops were followed by a general conference. Professor Lim Pin, Vice-Chancellor of the National University of Singapore, officiated at the opening of the general conference.

The following twelve eminent mathematicians were the invited speakers at the Conference:

- D. L. Burkholder, University of Illinois at Urbana-Champaign,
- J. W. S. Cassels, University of Cambridge,
- P. Erdős, Hungarian Academy of Sciences,
- M. Fukushima, Osaka University,
- B. Hartley, University of Manchester,
- T. Hida, Nagoya University,
- N. Iwahori, Tokyo University,
- H. Matsumura, Nagoya University,
- E. C. Milner, University of Calgary,
- H. Nagao, Osaka University,
- M. Nagata, Kyoto University,
- B. H. Neumann, Institute of Advanced Studies, ANU.

Professors Burkholder, Fukushima, Hida, Matsumura and Nagata conducted the workshops and all the invited speakers each gave a one-hour address at the general conference. The addresses at the general conference were on topics in ring theory and homological algebra, probability theory, group theory, combinatorics and number theory.

A total of 132 participants from 16 countries attended the Conference. Most of the participants were from the ASEAN countries. In addition to the invited addresses, 30 contributed papers were presented by the participants at the general conference.

The Organizing Committee and Subcommittee of the Conference consisted of the following persons:

Organizing Committee

- | | | |
|-----------------------|---|--|
| Chairman | : | Peng Tsu Ann |
| Co-Chairman | : | Teh Hoon Heng |
| Secretary | : | Louis H. Y. Chen |
| Assistant Secretaries | : | Lai Choy Heng & Leong Yu Kiang |
| Treasurer | : | Koh Khee Meng |
| Members | : | Chew Kim Lin, Chong Chi Tat,
Lee Peng Yee & Malcolm Wicks |

Subcommittees

- | | | |
|------------------|---|--|
| Accommodation | : | Cheng Kai Nah (Chairman), Chan Gin Hor,
Lee Peng Yee & Ng Peng Nung. |
| Finance | : | Teh Hoon Heng (Chairman), Peng Tsu Ann &
Malcolm Wicks |
| Hospitality | : | Malcolm Wicks (Chairman), Chow Yoong Ming,
Lam Lay Yong & Wan Fook Sun. |
| Programmes | : | Stephen T. L. Choy (Chairman), Chen Chuan Chong,
Leong Yu Kiang, R. Subramanian & Woo Kai Yuen. |
| Public Relations | : | Louis H. Y. Chen (Chairman), Koh Khee Meng &
Leonard Y. H. Yap. |
| Registration | : | Tan Sie Keng (Chairman), Chang Boon Chong,
Lai Choy Heng & Lim Chee Seng. |
| Transport | : | Shee Sze Chin (Chairman), Chan Kai Meng,
Peter C. T. Tung, S. J. Wilson & Yap Kim Yew. |

(e) First Southeast Asian Conference in Mathematical Logic

The First Southeast Asian Conference in Mathematical Logic was held at the Faculty of Science, National University of Singapore, on November 9 to 13, 1981. Professor Huang Hsing Hua, Deputy Vice-Chancellor, officiated at the Opening Ceremony. This was the first meeting ever held in the region focusing on various aspects of mathematical logic and theoretical computer science. It was jointly organized by the Department of Mathematics, NUS, and the Singapore Mathematical Society, and received sponsorship and support from two international

organizations: the Association for Symbolic Logic and the International Union of History and Philosophy of Science, Division for Logic, Methodology and Philosophy of Science. The Organizing Committee consisted of Professor Malcolm Wicks (Chairman), Dr. Chong Chi Tat (Secretary), Professor Teh Hoon Heng, and Professor John Crossley (Monash University).

There were about 40 registered participants from the ASEAN countries, Japan, China, Australia, New Zealand and the United States. Two workshops, one in model theory and one in recursion theory, were held during the Conference. The invited speakers were among the world's leading experts in the field of mathematical logic. These included Professors John Crossley (Monash University, Australia), Manuel Lerman (University of Connecticut, U.S.A.), Anil Nerode (Cornell University, U.S.A.), Angus McIntyre (Yale University, U.S.A.), and Gerald Sacks (Harvard University and M.I.T., U.S.A.).

VI. Grants

The Society received S\$15,000.00 from Lee Foundation, US\$2,000.00 from the International Mathematical Union, S\$3,000.00 from Shell Eastern Petroleum (Pte) Ltd., S\$1,500.50 from Unesco through the Southeast Asian Mathematical Society and S\$500.00 from National Kap (Pte) Ltd. as financial support for the organization of the International Mathematical Conference 1981. It also received S\$5,000.00 from the Ministry of Education and S\$60.00 from Mr. Yong Siew Mui for the publication of the Medley.

V. Library

The library was hardly used by members.

VII. Finance

This item is covered in the Treasurer's Report. The Society wishes to record its thanks to Dr. Peter C. T. Tung, the Honorary Auditor, for scrutinizing the accounts.

VIII. Acknowledgements

The Committee of the Society wishes to thank Lee Foundation, the International Mathematical Union, Shell Eastern Petroleum (Pte) Ltd., Unesco, the Southeast Mathematical Society, National Kap (Pte) Ltd., the Ministry of Education and Mr. Yong Siew Mui for their financial support. It also wishes to thank each and everyone who has helped the Society in various ways in the past year.

Louis H. Y. Chen
Honorary Secretary