

Singapore Mathematical Society

Annual Report 1991

I Membership

Membership in the various categories at the end of 1991 is shown below. The figures in parentheses represent the corresponding figures for 1990:

Honorary :	7	(7)
Individual :	190	(180)
Institution :	29	(29)
Junior :	29	(32)
Reciprocal :	2	(2)

II Officials

The officials of the Society for 1991 were:

President :	Prof Leonard Y H Yap
Vice-Presidents :	Prof Chong Chi Tat Dr Leong Yu Kiang Prof S J Wilson
Hon Secretary :	Dr Chew Tuan Seng
Hon Treasurer :	Dr Chan Yiu Man
Editor :	Prof Lee Seng Luan
Assist Secretary :	Dr Tan Eng Chye
Assist Editors :	Dr Leung Ka Hin Dr Shee Sze Chin
Committee Members :	Dr Chan Shih Ping Mr Hang Kim Hoo Dr Ma Siu Lun Ms Ng Bee Huay

III Activities of the Society during the year 1991

1. Publications

Two issues of Mathematical Medley were published : Volume 19, Number 1 (June 1991) and Number 2 (December 1991).

2. Lectures

Seven lectures were organised during the year. The Presidential Address (item (d)) was delivered at the Society's 24th Annual General Meeting. The lecture by Professor Potts (item (g)) was given at the prize-giving ceremony of the Mathematical Competitions. The other lectures were organised jointly with the Department of Mathematics of the National University of Singapore.

Date	Title	Speaker
(a) 18 March 1991	Computers can be useful in algebra— Rewriting products of group elements	Prof Derek J S Robinson University of Illinois at Urbana-Champaign
(b) 5 April 1991	The multi-armed bandit problem — A survey	Prof Tze Leung Lai Stanford University
(c) 10 April 1991	Euclid's algorithm — Since Euclid	Prof P M Cohn University of London
(d) 30 April 1991	Poisson approximation and molecular biology	Prof Louis H Y Chen National University of Singapore
(e) 22 May 1991	Air Pollution and Hilbert space	Prof Leo Breiman University of California, Berkeley
(f) 19 June 1991	The new math in paradise	Prof E C Milner University of Calgary
(g) 13 September 1991	Chaos and fractals	Prof R B Potts Adelaide University

IV Mathematical Competitions 1991

(a) Inter-Secondary School Mathematical Competition

A total of 549 students from 61 secondary schools took part in the Inter-Secondary School Mathematical Competition on Saturday, 1 June 1991, at New Town Secondary School. The team results and individual results are as follows:

Team Results		
Position	School	Team Members
1	The Chinese High School	Huang Zhiwei Lin Ziwei Zhong Huimin
2	Raffles Institution	Ip Kee Wai Darin Zou Hanbin Zhang Zhauwei
3	Anglo-Chinese Sec. Sch.	Chen Junxiang Huang Guangkai Lu Zhongren
4	Catholic High School	Li Jianshun She Yumin Yang Yilie
5	Raffles Girls' School	Hu Ming Liang Mingsi Liu Lei

The Chinese High School was awarded the Singapore Mathematical Society Challenge Trophy.

Individual Results

Position	Competitor	School
1	Lin Ziwei	The Chinese High School
2	Zhang Zhauwei	Raffles Institution
3	Lu Zhongren	Anglo-Chinese Sec. Sch.
4	Darin Zou Hanbin	Raffles Institution
4	Zhong Huimin	The Chinese High School
6	Huang Zhiwei	The Chinese High School
7	Yan Weiliang	The Chinese High School
8	Zhang Rui'an	The Chinese High School
8	Ip Kee Wai	Raffles Institution
10	Feng Xiutao	Raffles Institution

Lin Ziwei of The Chinese High School was awarded the Liew Mai Heng Memorial Prize.

The following received honourable mentions: Chen Junxiang, Huang Guangkai, Wu Jiacheng, Wu Qinhua (Anglo-Chinese Sec. Sch.); Yang Yilie (Catholic High School); Huang Zhoujian, Pan Cilin (The Chinese High School); Chen Ruixing, Lee Ting Hon, Leung Kenneth (Raffles Institution).

(b) Inter-School Mathematical Competition

A total of 136 students from 11 junior colleges and 12 secondary schools took part in the Inter-School Mathematical Competition on Saturday, 22 June 1991, at the National University of Singapore. The team results and individual results are as follows:

Team Results		
Position	School	Team Members
1	Raffles Junior College	Tan Chong Hui Pang Ki Khoon Hung Hing Shan
2	The Chinese High School	Huang Zhiwei Yan Weiliang Lin Ziwei
3	Hwa Chong Junior College	Chua Chek Beng Chieu Hai Leong Kuan Chee Choun

Raffles Junior College was awarded the Singapore Mathematical Society Challenge Shield and the team members were awarded the Southeast Asian Mathematical Society Prize.

Individual Results		
Position	Competitor	School
1	Lin Ziwei	The Chinese High School
2	Tan Chong Hui	Raffles Junior College
3	Kuan Chee Choun	Hwa Chong Junior College
4	Huang Hing San	Raffles Junior College
5	Zhang Zhanwei	Raffles Institution

The following received honourable mentions: Huang Zhiwei, Yan Weiliang (The Chinese High School); Chua Chek Beng, Ng Wee Teck (Hwa Chong J C); Leok Melvin (Raffles Institution); Pang Ki Khoon, Lim Li Ying (Raffles J C); Lim Kah Chuan (Victoria J C).

Lin Ziwei of The Chinese High School was awarded the Singapore Mathematical Society Prize.

The prize-giving ceremony was held on 13 September 1991 at Lecture Theatre 21, Faculty of Science, National University of Singapore. Professor R B Potts gave away the prizes.

The Competition Subcommittee consisted of Dr Leung Ka Hin (Chairman), Dr Hong Geck Chan, Dr Lang Mong Lung, Dr Ma Siu Lun, Dr Peter Y H Pang, and Dr Ru Min.

A grant of \$2000 was provided by the Ministry of Education for part of the expenses incurred in the above competitions.

V 32nd International Mathematical Olympiad (IMO)

Singapore participated in the 32nd International Mathematical Olympiad in Sigtuna, Sweden, from 12 to 23 July 1991. The Singapore team consisted of Associate Professor Koh Khee Meng (Team Leader), Mr Ho Foo Him (Deputy Leader), Mr Song Hoe Chye (Observer) and the following six students: Lim Chu Wee (Chinese High School), Ng Chee We (Chinese High School), Chua Chek Beng (Hwa Chong J C), Tan Chong Hui (Raffles J C), Pang Ki Khoon (Raffles J C) and Lim Li Ying (Raffles J C).

Lim Chu Wee, Tan Chong Hui and Chua Chek Beng were awarded, respectively, a silver medal, a bronze medal, and an honourable mention. In the

unofficial ranking by total team score, the Singapore team ranked 27th out of 56.

The Singapore Mathematical Olympiad Training Committee 1991 consisted of Dr Leong Yu Kiang (Chairman), Mrs Chang Swee Tong (Secretary), Dr Chan Shih Ping, Assoc Prof Chen Chuan Chong, Dr Chua Kok Seng, Mr Hang Kim Hoo, Dr He Xuming, Mr Ho Foo Him, Assoc Prof Koh Khee Meng, Dr T R Nanda, Ms Ng Bee Huay, Dr Roger Poh, Dr Sun Yeneng, Dr Tay Tiong Seng, Dr Tay Yong Chiang and Dr Wong Yan Loi.

VI Asian Pacific Mathematical Olympiad

An Asian Pacific Mathematical Olympiad (APMO) was organised by Australia with representatives from Canada, Colombia, Hong Kong, Korea, Malaysia, Mexico, New Zealand, Philippines, Singapore, Taiwan and Thailand. Singapore was represented by Dr Leong Yu Kiang.

The APMO test was conducted separately in the participating countries and was held on 20 March 1991 for the Singapore contestants. The following students obtained the following results : Lin Ziwei (gold), Tan Chong Hui (silver), Cai Zheming (silver), Huang Zhiwei (bronze), Ben Liang Yongli (bronze), Pang Ki Khoon (honourable mention), Huang Kedi (honourable mention), Tan Kok Yam (honourable mention), Teng Huei Chung (honourable mention).

VII Singapore Number Theory Workshop

The Workshop was held from 7 to 14 May 1991 at the National University of Singapore. It was jointly organised by the Department of Mathematics of the National University of Singapore and the Society.

The Workshop was attended by 45 participants from 8 countries.

The Workshop was conducted by Professors Benedict H Gross (Harvard University), Wolfgang M Schmidt (University of Colorado), and Jean-Pierre Serre (Collège de France). Informal sessions for talks and discussions were also held at the Workshop.

VIII School Teachers Subcommittee

The School Teachers Subcommittee consisted of Mr Hang Kim Hoo (Chairman), Miss Ng Bee Huay (Secretary), Miss Aw Yong Poh Wah, Miss Chan Bee Bee, Mr Ho Foo Him, Mr Leuar Boon Char and Mr Tai Thiam Hoo.

The Subcommittee helped in organising the Inter-School Mathematical Competition, the Inter-Secondary Mathematical Competition and Singapore

Mathematical Olympiad Training Camp. It also helped in training Singapore Mathematical Olympiad Junior Team.

The Subcommittee is organising a series of talks which will form part of the Singapore Science Congress programme. The Congress is organised by the Singapore National Academy of Science and will be held in June 1992.

IX Finance

This is dealt with in the Treasurer's report. The Society wishes to record its thanks to the Honorary Auditor, Dr Peter Y H Pang, for scrutinizing the accounts.

X Acknowledgements

The Committee of the Society wishes to express its thanks to the Lee Kong Chian Centre for Mathematical Research for its continued financial support; to the Ministry of Education for its grant for the Society's mathematical competitions; to the Southeast Asian Mathematical Society for donating the SEAMS prize for the Inter-school Mathematical Competition and to the Department of Mathematics of the National University of Singapore for its support and cooperation.

Chew Tuan Seng

Hon Secretary

18 February 1992