

# Singapore Mathematical Society

## Annual Report 1990

### I Membership

Membership in the various categories at the end of 1990 is shown below. The figures in parentheses represent the corresponding figures for 1989:

Honorary :	7	(6)
Individual :	123	(179)
Institution :	29	(28)
Junior :	32	(28)
Reciprocal :	2	(2)

### II Officials

The officials of the Society for 1990 were:

President :	Prof Louis Chen Hsiao Yun
Vice-Presidents :	Prof Chen Chuan Chong Prof S. J. Wilson Prof Leonard Y. H. Yap
Hon. Secretary :	Prof Leong Yu Kiang
Hon. Treasurer :	Dr Chan Yiu Man
Editor :	Dr Chew Tuan Seng
Assist. Secretary :	Dr Tan Eng Chye
Assist. Editors :	Prof Lee Seng Luan Dr Leung Ka Hin
Committee Members :	Dr Chan Shih Ping Mr Leuar Boon Char Miss Ng Bee Huay Dr Shee Sze Chin

### III Activities of the Society during the year 1990

#### 1. Publications

Two issues of Mathematical Medley were published : Volume 18, Number 1 (June 1990) and Number 2 (December 1990).

#### 2. Lectures

Three lectures were organised during the year. The Presidential Address (item (b)) was delivered at the Society's 23rd Annual General Meeting. The other lectures were organised jointly with the Department of Mathematics of the National University of Singapore.

Date	Title	Speaker
(a) 16 February 1990	C is algebraically closed	Prof J-P Serre Collège de France
(b) 21 March 1990	How many shuffles suffice?	Prof Louis H. Y. Chen National University of Singapore
(c) 11 April 1990	Uncertainty and sequential choice	Prof J. A. Bather University of Sussex

### IV Mathematical Competitions 1990

#### (a) Inter-Secondary School Mathematical Competition

A total of 594 students from 65 secondary schools took part in the Inter-Secondary School Mathematical Competition on Saturday, 26 May 1990, at Temasek Junior College. The team results and individual results are as follows:



Team Results		
Position	School	Team Members
1	The Chinese High School	Cai Zheming Lin Ziwei Zeng Guanqun
2	Raffles Institution	Liang Yongli, Ben Tan Kok Yam Teng Huei Chung, Andrew
3	Anglo-Chinese Sec. Sch.	Chen Junxiang Lu Zhongren Zhang Zhuangzhi
3	Catholic High School	Huang Shoujie Lin Weili Weng Lixiang Zhang Zhijin, Kenneth
3	Raffles Girls' School	Chen Yanni Han Hui Ow Dannie

Individual Results		
Position	Competitor	School
1	Lin Ziwei	The Chinese High School
2	Cai Zheming	The Chinese High School
3	Zhang Zhuangzhi	Anglo-Chinese Sec. Sch.
4	Teng Huei Chung, Andrew	Raffles Institution
5	Liang Yongli, Ben	Raffles Institution
5	Tan Kok Yam	Raffles Institution

The Chinese High School was awarded the Singapore Mathematical Society Challenge Shield. (Note that in the team results, Catholic High School has 4 competitors listed because two of them have the same score; however, only 3 of their marks are counted towards the total aggregate for the school.)

The following received honourable mentions : Chen Jianchun (Anderson Sec. Sch.), Chen Junxiang (Anglo-Chinese Sec. Sch.) Chen Yanni (Raffles Girl's School), Huang Shoujie (Catholic High School), Huang Zhiwei (The Chinese High School), Hung Hing Shan (Raffles Institution),

Jeffrey Tan Gek Meng (St. Andrew's Sec. Sch.) Lu Zhongren (Anglo-Chinese Sec. Sch.), Luo Wenchao (The Chinese High School), Wu Qin-hua, Alan (Anglo-Chinese Sec. Sch.), Zeng Guanqun (The Chinese High School), Zeng Qingli (Geyland Methodist Sec. Sch.).

### (b) Inter-School Mathematical Competition

A total of 157 students from 13 junior colleges and 12 secondary schools took part in the Inter-School Mathematical Competition on Saturday, 23 June 1990, 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	Chan Chee Keong, Stephen Chung Min Him Lim Li Woon Lim Li Ying Pang Ki Khoon Tan Chong Hui
2	The Chinese High School	Cai Zheming Chen Kaimin Dai Yuanfeng Huang Zhiwei Lin Ziwei Zhang Junbin
3	Raffles Institution	Hung Hing Shan Ip Kee Wai Liang Yongli, Ben Tan Kok Yam Teng Hwei Chung



Individual Results		
Position	Competitor	School
1	Tan Chong Hui	Raffles Junior College
2	Lin Ziwei	The Chinese High School
3	Yan Weide	Hwa Chong Junior College
4	Liang Yongli, Ben	Raffles Institution
5	Jin Zihuai	Temasek Junior College

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

The individual winner, Tan Chong Hui of Raffles Junior College, was awarded the Singapore Mathematical Society Prize.

The following received honourable mentions: Cai Zheming (The Chinese High School), Hsi Han Yin (Hwa Chong J C), Huang Kedi (River Valley High School), Hung Hing Shan (Raffles Institution), Lim Li Woon (Raffles J C), Ng Cher Pong (Victorial J C), Teng Huei Chong (Raffles Institution), Yean Wei Liang, Winston (Victoria J C).

The prize-giving ceremony was held on 13 August 1990 at Lecture Theatre 21, Faculty of Science, National University of Singapore. Professor Peng Tsu Ann gave away the prizes.

The Competition Subcommittee consisted of Dr Tay Tiong Seng (Chairman), Dr Leung Ka Hin (Vice-Chairman), Dr Chan Shih Ping, Dr Lang Mong Lung, Dr Ma Siu Lun, Dr Peter Y. H. Pang and Dr Roger Poh.

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

## V 31st International Mathematical Olympiad (IMO)

Singapore participated in the 31st International Mathematical Olympiad in Beijing, China, from 8 to 19 July 1990. The Singapore team consisted of Dr Leong Yu Kiang (Team Leader), Dr Tara N. Nanda (Deputy Leader), Mr Song Hoe Chye (Observer) and the following six students: Hsi Hanyin (Hwa Chong J C), Jin Zihuai (Temasek J C), Lin Ziwei (The Chinese High School), Lim Li Woon (Raffles J C), Tan Chong Hui (Raffles Institution) and Yu Changkai (Victorial J C).

Lim Li Woon and Tan Chong Hui were each awarded a bronze medal while Jin Zhihuai and Yu Changkai were awarded honourable mentions. In the unofficial ranking by total team score, the Singapore team ranked 27th out of 54.

The Singapore Mathematical Olympiad Training Committee 1990 consisted of Prof Chen Chuan Chong (Chairman), Miss Chan Bee Bee, Mrs Chang Swee Tong (Secretary), Mr Hang Kim Hoo, Mr Ho Foo Him, Prof Koh Khee Meng, Dr Leong Yu Kiang, Mr Leuar Boon Char, Dr T R Nanda, Miss Ng Bee Huay, Miss Tan Teng Wah, Miss Tay Lai Ling, Dr Tay Tiong Seng and Dr Tay Yong Chiang.

## VI Asian Pacific Mathematical Olympiad

An Asian Pacific Mathematical Olympiad (APMO) was organized by Australia with representatives from Canada, Hong Kong, Korea, Mexico, New Zealand, Philippines, Singapore and Thailand. Singapore was represented by Prof Chen Chuan Chong.

The APMO test was conducted separately in the participating countries and was held on 10 March 1990 for the Singapore contestants. The following students obtained the following results : Lin Ziwei (gold), Lim Li Woon (silver), Yan Weide (silver), Yu Changkai (bronze), Tan Chong Hui (bronze), Hsi Han Yin (bronze), Cai Zheming (bronze), Pang Ki Khoon (honourable mention), Huang Zhiwei (honourable mention), Lee Chee Meng (honourable mention).

## VII School Teachers Subcommittee

The School Teachers Subcommittee consisted of Mr Leuar Boon Char (Chairman), Miss Chan Bee Bee, Mr Hang Kim Hoo, Mr Ho Foo Him, Mdm Kuo Wei Chuang and Miss Ng Bee Huay.

The Subcommittee organized a demonstration of the Interactive Statistical Package (ISP) by Dr Chan Yiu Man and Dr Rosalind Phang on 27 June 1990 in the National University of Singapore. About 100 junior college teachers attended the session.

The Subcommittee also helped in organising the Inter-Secondary School Mathematical Competition.

## VIII International Mathematical Union

Prof Louis H. Y. Chen represented Singapore at the General Assembly of the International Mathematical Union in Kobe, Japan,



from 18 to 19 August 1990. The International Congress of Mathematicians was subsequently held in Kyoto from 21 to 29 August 1990.

## IX Finance

This is dealt with in the Treasurer's report. The Society wishes to record its thanks to the Honorary Auditor, Dr Mak Kok Sun, 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 grand 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.

Leong Yu Kiang

Hon Secretary

22 April 1991