

S  
i  
n  
g  
a  
p  
o  
r  
e

Mathematical  
Society

ANNUAL REPORT 2000

## I Membership

Membership in the various categories at the end of 2000 is shown below. The figures in parentheses represent the corresponding figures for 1999:

Honorary	:	9	(9)
Life	:	50	(51)
Ordinary	:	198	(237)
Institution	:	77	(77)
Junior	:	144	(311)
<b>TOTAL</b>	:	<b>478</b>	<b>(685)</b>

## II Officials

The officials of the Society for 2000 were:

President	:	Prof Lee Seng Luan
Vice-Presidents	:	Prof A J Berrick Mr Hang Kim Hoo A/P Tan Eng Chye
Hon Secretary	:	A/P Denny Leung Ho Hon
Hon Treasurer	:	A/P Zhang De-Qi
Editor	:	Dr Cheng Kai Nah
Asst Secretary	:	Dr Tan Kok Choon
Asst Editors	:	A/P Leung Ka Hin Dr Wong Yan Loi
Committee Members	:	Mr Ang Mia Lee A/P Peter Pang Yu Hin Dr Teo Kok Ming Dr Patricia Wong Jia Ying

## III Activities

### (a) Publications

Two issues (Volume 27, Numbers 1 & 2) of the Mathematical Medley were published.

### (b) Lectures, Workshops and Conferences

#### (i) Lectures

Mr Hang Kim Hoo gave the following talks:

“Understanding and Thinking in Mathematics” for primary 1 parents at Park View Primary School on 6 May 2000;

“Mathematical Thinking”, Maths Day 2000 talk for students at NIE on 1 July 2000.

A/P Tan Eng Chye gave a talk entitled “How Logical Are You” on 1 July 2000 at Maths Day 2000 at NIE.

## **(ii) Workshops**

A series of workshops on "Problem Solving and Mathematics Projects" for secondary school and JC teachers were held at NUS from February to May 2000. Additional sessions of the workshop were held at Victoria Secondary School in August 2000 and at Nan Hua Secondary School in November 2000.

A workshop on "Teaching Mathematical Thinking" was conducted by Mr Hang Kim Hoo for West Zone Primary Mathematics teachers.

A workshop on "Applications of Probability in Computational Biology & Communications" was held at NUS on 16 December 2000. The speakers were Professor Timothy Brown of the University of Melbourne and Professor Louis Chen of NUS.

## **(iii) Conferences**

The Society sponsored and took part in the organization of the following two international conferences: (i) International Conference on Fundamental Sciences: Mathematics and Theoretical Physics (Singapore, March 2000), and (ii) Asian Mathematical Conference (Manila, October 2000). In particular, Society members Louis Chen, Lee Seng Luan, Tan Eng Chye, Peter Pang and Tan Kok Choon served on the Local Organizing Committee of (i), while Koh Khee Meng and Lee Seng Luan sat on the Steering Committee and the Scientific Committee, respectively, of (ii).

## **(c) SMS Mathematical Competitions**

The SMS conducted the following mathematical competitions from May to July 2000: (i) the Singapore Mathematical Olympiad, and (ii) the Singapore Secondary School Mathematical Olympiad (Junior and Senior Sections). A total of more than 7000 participants from about 110 schools and SINDA took part in these competitions. The Prize Presentation Ceremony was held on 23 September at The Chinese High School. The Guest-of-Honour was Professor Hans Föllmer, Professor of Mathematics at Humboldt-Universität zu Berlin, Germany and Distinguished Visiting Professor of Mathematics at NUS. Altogether 51 team prizes and 63 individual prizes were given out. The results of the competitions are attached.

## **(d) International Mathematical Competitions**

### **(i) 40th International Mathematical Olympiad**

Singapore participated in the 41st International Mathematical Olympiad in Taejon, Korea in July 2000. The Singapore team consisted of Assoc Prof Tay Tiong Seng (NUS, Team Leader), Mr Hsi Hanyin (Temasek JC, Deputy Leader) and the following six students: Kwa Chin Lum (Raffles JC), Lim Yin (Victoria JC), Tan Chee Hau (Raffles JC), Ng Wan Long (Hwa Chong JC), Tay Kah Keng (Raffles JC) and Tay Kah Seng (Raffles JC). Lim Yin received a Silver Medal. Kwa Chin Lum and Tan Chee Hau received Bronze Medals. In an unofficial ranking by total team score, the Singapore team ranked 37th among 82 participating teams.

The Singapore International Mathematical Olympiad Committee 2000 consisted of Tay Tiong Seng (Chairman), Wong Yan Loi (Deputy Chairman), Chan Onn, Chan Hock Peng, Chen Chuan Chong, Chua Seng Kee, Chua Seng Kiat, Hsi Han Yin, Koh Khee Meng, Lang Mong Long, Leung Ho-Hon Denny, Leung Ka Hin, Lim Khee Siang, Ng Wei Min, Ong Bee Suan, Poh K.S. Roger, Soh Cheow Kian, Tai Thiam Hoo, Tay Yong Chiang, Teo Teck Kian, Toh Tin Lam.

**(ii) Asian Pacific Mathematical Olympiad 2000**

The Asian Pacific Mathematical Olympiad was held in March 2000, and the results are as follows: Gold: Lim Yin (VJC); Silver: Kwa Chin Lum (RJC), Tan Kiat Chuan (RI); Bronze: Tan Chee Hau (RJC), Poh Wei Quan, Julius (ACS(I)), Tay Kah Seng (RJC); Honourable Mention : Ng Wan Long (HCJC), Kiah Han Mao (VJC), Yeh Yuan Long (ACJC), Tay Kah Keng (RJC).

**(e) Enrichment Programmes in Mathematics**

**(i) For Secondary Students**

From May to October 2000, the Society conducted Enrichment Programmes for secondary students at Victoria School, Naval Base Secondary School, Fairfield Methodist Secondary School, Chinese High School, Dunearn Secondary School, Outram Secondary School, Outram Institute and CHIJ St Nicholas Girls' School. Altogether over 600 students took part.

**(ii) For Primary Students**

From September to December 2000, the Society conducted 12 sessions of the Primary Mathematics Olympiad Programme (PMOP) at NUS and 5 primary schools (Bedok View, Holy Innocents', Maha Bodhi, Mayflower, Yu Neng). Altogether 456 students from 49 primary schools took part.

**(f) SMS Mathematics Project Festival**

The SMS Mathematics Project Festival was launched in 2000. For the inaugural run, 20 projects were received in the Junior Section and 16 projects were received in the Senior Section. Selected teams will be invited to present their projects at a one-day Festival to be held in March 2001 at River Valley High School.

**(g) Others**

- (i) During the Mathematical Olympiads Prize Presentation Ceremony, SMS President Prof Lee Seng Luan announced that several international schools have accepted the Society's invitation to participate in the Singapore Mathematical Olympiad (SMO). Concurrently, the SMO will undergo some restructuring. A copy of the letter sent to schools detailing the changes is attached.
- (ii) At the Asian Mathematical Conference (AMC2000) held in October 2000, the SMS was awarded the right to host the next Asian Mathematical Conference in 2004.
- (iii) The SMS donated a sum of \$1,000 to Clementi Town Secondary School for the establishment of the SMS Mathematics Medal at the school. The prize serves to encourage interest in mathematics and promote participation in the Society's activities.

#### IV SMS Prizes in Mathematics

The Singapore Mathematical Society Gold Medal and Book Prize 2000 at NUS was awarded to Mr Heng Chiang Wee, a student in Mathematics with First Class Honours and best overall performance in Mathematics in his undergraduate studies. The Singapore Mathematical Society Book Prize for Engineering Mathematics at Temasek Polytechnic was awarded to Miss Lee Hui Fen, the graduating Temasek Engineering School student with the best average score for Engineering Mathematics 1, 2 and 3.

#### V Finance

This is dealt with in the Treasurer's report. The Society wishes to record its thanks to the Honorary Auditor, Dr Chua Seng Kee, for scrutinising the accounts.

#### VI Acknowledgements

The Committee wishes to express its thanks to the Lee Foundation and the Ministry of Education for their financial support; to the Southeast Asian Mathematical Society for donating the SEAMS prize for the Singapore Mathematical Olympiad; to the following schools for their assistance in the organization of the mathematical olympiads: Anderson Sec Sch, Ang Mo Kio Sec Sch, Clementi Town Sec Sch, Crescent Girls' Sch, Manjusri Sec Sch, Pasir Ris Sec Sch, Raffles Institution, River Valley High Sch, St Joseph's Institution, Swiss Cottage Sec Sch, The Chinese High Sch, Woodlands Sec Sch, Xinmin Sec Sch; and to the Department of Mathematics and the Mathematics Society of the National University of Singapore, as well as members and friends for their support and cooperation.

---

**Denny H H Leung**  
**Honorary Secretary**

---

• February 2001 •