

Singapore Mathematical Society

Annual Report

2002

I Membership

Membership in the various categories at the end of 2002 is shown below. The figures in parentheses represent the corresponding figures for 2001:

Honorary	:	(9)
Life	:	(51)
Ordinary	:	(211)
Institution	:	(84)
Junior	:	(141)
TOTAL	:	(496)

II Officials

The officials of the Society for 2002 were:

President	:	A/P Tan Eng Chye
Vice-Presidents	:	Mr Hang Kim Hoo A/P Lim-Teo Suat Khoh A/P Peter Pang Yu Hin
Hon Secretary	:	A/P Denny Leung Ho Hon
Hon Treasurer	:	A/P Chua Seng Kee
Editor	:	Dr Wong Yan Loi
Asst Secretary	:	A/P To Wing Keung
Asst Editors	:	Dr Victor Tan Dr Tang Wee Kee
Committee Members	:	Mr Ang Mia Lee Mrs Lim Kian Huat Dr Tan Geok Choo Dr Teo Kok Ming

III Activities

(a) Publications

Two issues (Volume 29, Numbers 1 & 2) of the *Mathematical Medley* were published.

(b) Lectures, Workshops and Conferences (see also (c) Distinguished Visitor Programme)

(i) Lectures

The Society organized the following talks and lectures in 2002.

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1. "Highlights of an Emerging Field – Computational Biology" by Prof Franco Preparata on 15 Feb 2002. Jointly organized with the Institute for Mathematical Sciences, NUS.
2. "The Beauty of Polyhedra" by A/P Helmer Aslaksen on 22 Feb 2002.
3. "Unraveling Genes: the Role of Mathematics and Statistics" by Prof Warren Ewens on 20 Mar 2002. Jointly organized with the Institute for Mathematical Sciences, NUS.
4. "How Similar Are Human and Chimpanzee at the Genomic Level?" by Prof Wen-Hsiung Li on 27 Mar 2002. Jointly organized with the Institute for Mathematical Sciences, NUS.
5. "Quantitative Go, and some Other Games" by Prof Elwyn Berlekamp on 20 April 2002. Jointly organized with the Department of Mathematics and the School of Computing, NUS.
6. "Creating Mathematical Ideas" by Prof Louis Chen on 18 May 2002.
7. "Teaching Mathematical Thinking – Form and Substance" by Mr Hang Kim Hoo on 17 Aug 2002.
8. "The Volume of a Pyramid and Other Stories" by A/P Denny Leung at North 5 Cluster Mathematics Teacher Sharing Day, 17 Aug 2002.
9. "Ancient Chinese Mathematics and Its Influence on World Mathematics" by Prof Lam Lay Yong on 28 Sep 2002.

(ii) Workshops

A series of workshops on "Problem Solving and Mathematics Projects" for secondary school and JC teachers were conducted by A/P Tan Eng Chye at NUS from February to May 2002.

A workshop on "Critical Thinking in Elementary Mathematics – the Tale of Fractions and Decimals" was conducted by A/P Peter Pang on 13 April 2001.

The following workshops were conducted by Mr Hang Kim Hoo in 2002.

- Workshop on "Mathematical Understanding & Thinking" for Parents at Park View Primary School.
- Two workshops on "Teaching Thinking in Numbers and Geometry" for South 4 Cluster Schools' Mathematics Teachers (This is part of the series conducted with Prof Koh Khee Meng).
- Two workshops on "Mathematical Understanding & Proficiency" for Parents at Temasek Primary School Family Life Centre and Nanyang Primary School Family Life Centre.
- Two workshops on "Teaching Mathematical Problem Solving" for Parents at Temasek Primary School Family Life Centre and Nanyang Primary School Family Life Centre.
- Workshop on "Teaching of Algebra" for CDAC Mathematics Teachers.

(c) Distinguished Visitor Programme

The Society and the Association of Mathematics Educators cohosted the 2002 Distinguished Visitor, Professor Jeremy Kilpatrick, Regents Professor, University of Georgia, USA. Professor Kilpatrick visited Singapore in February 2002 and gave a public lecture on "Helping All Children Become Proficient in Mathematics". He also conducted a workshop for teachers on the same theme.

(d) SMS Mathematical Competitions

The SMS conducted the following mathematical competitions from May to July 2002: (i) the Singapore Mathematical Olympiad (Junior, Senior and Open Sections), and (ii) the Singapore Secondary School Mathematical Competition (Junior and Senior Sections). A record number of 7,564

participants from 137 schools and SINDA took part in these competitions. There was participation from the Singapore International School in Suzhou, China. The Prize Presentation Ceremony was held on 21 September 2002 at The Chinese High School. The Guest-of-Honour was Professor Edison T. Liu, Executive Director, Genome Institute of Singapore. Altogether 52 team prizes and 73 individual prizes were given out. The results of the competitions are attached.

(e) International Mathematical Competition

(i) 43rd International Mathematical Olympiad

The 42nd International Mathematical Olympiad was held in Glasgow, UK from 19 to 30 July 2002. A total of 479 contestants from 84 countries or regions participated in this IMO. The Singapore National Team to the 43rd International Mathematical Olympiad consisted of the following:

Dr. Tay Tiong Seng (NUS, Team Leader), Mr. Manu Kapur (National JC, Deputy Leader), Leung Ngai Hang Zachary (Anglo Chinese JC), Lin Zhiwei Calvin (Hwa Chong JC), Meng Dazhe (Raffles JC), Poh Wei Quan Julius (Raffles JC), Tan Kiat Chuan (Raffles JC), Tan Weiyu Colin (Raffles JC).

Poh Wei Quan Julius and Tan Kiat Chuan received Silver medals, Leung Ngai Hang Zachary and Meng Dazhe received Bronze medals and Tan Weiyu Colin received Honorable Mention. Unofficially the team ranked 30.

The Singapore International Mathematical Olympiad Committee 2002 consisted of Tay Tiong Seng (Chairman), Wong Yan Loi (Deputy Chairman), David Chan, David Chia, Chua Seng Kee, Chua Seng Kiat, Lang Mong Long, Leung Ho-Hon Denny, Leung Ka Hin, Manu Kapur, Poh K.S. Roger, Teo Teck Kian.

(f) Singapore Mathematics Project Festival

The Singapore Mathematics Project Festival 2002 was held on 13 March 2002 at River Valley High School. Five teams each from the Junior and Senior Sections were invited to make presentations and be interviewed by a panel of judges. The judges for the Festival were A/P Helmer Aslaksen, A/P Chua Seng Kee (NUS) and Dr Tay Eng Guan (NIE) for the Senior Section; Dr Cheng Kai Nah, Miss Tan Ke-Xin (Temasek JC) and Dr Teo Kok Ming (Hwa Chong JC) for the Junior Section. The results of the Festival are attached.

(g) Enrichment Programmes in Mathematics

(i) For Secondary Students

Info required.

(ii) For Primary Students

From February to December 2002, the Society conducted the Primary Mathematics Olympiad Programme (PMOP) for 19 groups of students at NUS and 6 primary schools (Bedok Green, Loyang, Ngee Ann, Rosyth, St. Anthony's, St. Michael's). Altogether 526 students from 29 primary schools took part.

IV SMS Prizes in Mathematics

The Singapore Mathematical Society Gold Medal and Book Prize 2002 at NUS was awarded to Mr Ng E-Jay, a student in Mathematics with First Class Honours and best overall performance in Mathematics in his undergraduate studies. The Singapore Mathematical Society Book Prize at NIE was awarded to Miss Mipuri Chandru Gobindram, the best overall student in mathematics who graduated with a Bachelor of Science with Diploma in Education. The Singapore Mathematical Society Book Prize for Engineering Mathematics at Temasek Polytechnic was awarded to Mr Zhao Yang, the graduating Temasek Polytechnic 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, A/P Zhang De-Qi, 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, the Singapore Mathematics Project Festival, and the Prize Presentation Ceremony: Anderson Sec Sch, Anglican High Sch, Anglo-Chinese Sch(I), CHIJ St. Nicholas Girls' Sch, Clementi Town Sec Sch, Manjusri Sec Sch, Nan Hua Sec Sch, Nanyang Girls' High Sch, Raffles Institution, River Valley High Sch, Suzhou Singapore International Sch, Swiss Cottage Sec Sch, Temasek Sec 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 2002