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Mathematical  
Society

ANNUAL REPORT 2001



## I Membership

Membership in the various categories at the end of 2001 is shown below. The figures in parentheses represent the corresponding figures for 2000:

Honorary	:	9	(9)
Life	:	51	(50)
Ordinary	:	211	(198)
Institution	:	84	(77)
Junior	:	141	(144)
TOTAL	:	496	(478)

## II Officials

The officials of the Society for 2001 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 Zhang De-Qi
Editor :	Dr Cheng Kai Nah
Asst Secretary :	A/P To Wing Keung
Asst Editors :	Dr Kan Charn Huen
	Dr Wong Yan Loi
Committee Members :	Mr Ang Mia Lee
	Dr Tan Geok Choo
	Dr Tang Wee Kee
	Dr Teo Kok Ming

## III Activities

### (a) Publications

Two issues (Volume 28, Numbers 1 & 2) of the *Mathematical Medley* and the book "Singapore Secondary School Mathematical Olympiads 1999-2000" were published.

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

#### (i) Lectures

The Society organized the following public lectures in 2001.

1. "Thinking and Understanding Mathematics" by Mr Hang Kim Hoo on 12 May 2001.
2. "Some Examples of Multi-Disciplinary Projects" by A/P Tan Eng Chye on 21 July 2001.



3. "History of mathematics in mathematics education -entrée? main course? or dessert?" by Prof Man Keung Siu on 20 October 2001.
4. "When are the dates of Chinese New Year, Hari Raya Puasa and Deepavali?" by A/P Helmer Aslaksen on 10 November 2001.

## **(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 2001.

A workshop on "Mathematics Appreciation" was organized by A/P Peter Pang in conjunction with the University Scholars Programme, NUS, on 7 April 2001.

## **(iii) Conferences**

The Society co-sponsored the Singapore International Symposium on Topology and Geometry (SISTAG) held at NUS on 2-6 July 2001.

## **(c) Distinguished Visitor Programme**

The Society's 2001 Distinguished Visitor, Professor Wilfried Schmid from Harvard University, visited Singapore in August 2001 and gave a public lecture on "A Critical Look at Mathematics Education in the United States". He was also the featured guest in the dialogue session "Some Issues on Mathematics Education". Professor Schmid also spoke on "Automorphic Distributions" in a research seminar at NUS.

## **(d) SMS Mathematical Competitions**

The SMS conducted the following mathematical competitions from May to July 2001: (i) the Singapore Mathematical Olympiad (Junior, Senior and Open Sections), and (ii) the Singapore Secondary School Mathematical Competition (Junior and Senior Sections). A total of 5,683 participants from 114 schools and SINDA took part in these competitions. There was participation from United World College. The Prize Presentation Ceremony was held on 15 September 2001 at The Chinese High School. The Guest-of-Honour was Mr Chiang Chie Foo, Permanent Secretary, Ministry of Education. Altogether 56 team prizes and 69 individual prizes were given out. The results of the competitions are attached.

## **(e) International Mathematical Competition**

### **(i) 42nd International Mathematical Olympiad**

The 42nd International Mathematical Olympiad was held in Washington DC, USA from 1 to 14 July 2001. A total of 475 contestants from 83 countries or regions participated in this IMO. The Singapore National Team to the 42nd International Mathematical Olympiad consisted of the following:

Dr. Tay Tiong Seng (NUS, Team Leader), Mr. Teo Teck Kian Thomas (Victoria JC, Deputy Leader), Leung Ngai Hang Zachary (Anglo Chinese School (I)), Lin Zhiwei Calvin (Hwa Chong JC), Meng Dazhe (River Valley High School), Tan Kiat Chuan (Raffles JC), Tham Ming Qiang Nicholas (Raffles JC), Yeh Yuan Long Gary (Anglo Chinese JC).

Tan Kiat Chuan received a Silver medal, Lin Zhiwei Calvin, Meng Dazhe, Tham Ming Qiang Nicholas, and Yeh Yuanlong Gary received Bronze medals. Unofficially the team ranked 29.



The Singapore International Mathematical Olympiad Committee 2001 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, Poh K.S. Roger, Teo Teck Kian.

## (ii) 2nd Southeast Asian Mathematical Olympiad

The 2nd Southeast Asian Mathematical Olympiad was held in Penang, Malaysia from 18 to 22 June 2001. The Singapore National Team to the 2nd Southeast Asian Mathematical Olympiad consisted of Mr Manu Kapur (NJC, Team Leader), Mr James Quah (SRJC, Deputy Leader), Jonathan Aow (RJC), Julius Poh (RJC), Colin Tan (RI), Joel Tay (ACS[I]).

Julius Poh received an Excellent Gold Medal and a Gold Award, Colin Tan received a Gold Award, Joel Tay received a Silver Award and Jonathan Aow received a Bronze Award. The Singapore team ranked first.

## (f) Singapore Mathematics Project Festival

The Singapore Mathematics Project Festival 2001 was held on 15 March 2001 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 Prof Koh Khee Meng (NUS), Dr Chua Seng Kee (NUS) and Dr Tay Eng Guan (NIE) for the Senior Section; A/P Helmer Aslaksen (NUS), Dr Teo Kok Ming (Hwa Chong JC) and Miss Tan Ke-Xin (Temasek JC) for the Junior Section. The results of the Festival are attached.

## (g) Enrichment Programmes in Mathematics

### (i) For Secondary Students

From March to June 2001, the Society conducted Enrichment Programmes for secondary students for the GEP Programme, West Zone Cluster One schools, Dunman High School and Outram Secondary School. Altogether over 260 students took part.

### (ii) For Primary Students

From March to December 2001, the Society conducted the Primary Mathematics Olympiad Programme (PMOP) for 15 groups of students at NUS and 7 primary schools (Bedok View, Corporation, Loyang, Maha Bodhi, Nee Ann, Pioneer, Yu Neng). Altogether 444 students from 45 primary schools took part.

## IV SMS Prizes in Mathematics

The Singapore Mathematical Society Gold Medal and Book Prize 2001 at NUS was awarded to Miss Yeo Sze Ling, a student in Mathematics with First Class Honours and best overall performance in Mathematics in her undergraduate studies. The Singapore Mathematical Society Book Prize at NIE was awarded to Miss Tan Kui Suan, the best overall student in mathematics who graduated with a Bachelor of Arts with Diploma in Education. The Singapore Mathematical Society Book Prize at NTU was awarded to Mr Yang Kwang Wei, Joel, the student best performing student in Engineering Mathematics in the School of Electrical and Electronic Engineering, NTU. The Singapore Mathematical Society Book Prize for Engineering Mathematics at Temasek Polytechnic was awarded to Mr Lui Hoi Shun, the graduating Temasek Polytechnic Engineering School student with the best average score for Engineering Mathematics 1, 2 and 3.



## V Finance

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This is dealt with in the Treasurer's report. The Society wishes to record its thanks to the Honorary Auditor, A/P Zhao Gong Yun, for scrutinising the accounts.

## VI Acknowledgements

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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: Ahmad Ibrahim Sec Sch, Anglo-Chinese School (I), CHIJ St. Nicholas Girls' Sch, Chung Cheng High School (Main), Clementi Town Sec Sch, Manjusri Sec Sch, Nanyang Girls' High Sch, Raffles Institution, River Valley High Sch, Swiss Cottage Sec Sch, Temasek Sec Sch, The Chinese High Sch, Victoria 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