

ANNUAL REPORT - 1975

Membership

Membership in the various categories at the end of 1975 is shown below. The figures in parentheses represent the corresponding figures for 1974.

Honorary Members	9	(9)
Ordinary Members (institution)	11	(11)
(individual)	131	(121)
Junior Members	37	(15)

Officials

The officials of the Society for 1975 are:

President:	Dr. (Mrs.) Lam Lay Yong
Vice-Presidents:	Mr. Chan Kai Yau Dr. Chew Kim Lin Prof. P. H. Diananda
Honorary Secretary:	Dr. Louis H. Y. Chen
Assistant Secretary:	Dr. Ng How Ngee
Honorary Treasurer:	Dr. Chang Boon Chong
Librarian:	Dr. Kho Tek Hong
Editor of the Bulletin:	Dr. Peng Tsu Ann
Editor of the Medley:	Dr. Leong Yu Kiang
Assistant Editors:	Dr. Chan Kai Meng (<i>Bulletin</i>) Dr. Leonard Y.H. Yap (<i>Bulletin</i>) Dr. Chong Chi Tat (<i>Medley</i>) Mr. Lim Chee Lin (<i>Medley</i>)
Committee Members:	Mr. Chong Tian Hoo Assoc. Prof. K. K. Sen Dr. Shee Sze Chin Mr. Yeo Kok Keong

Dr. P.W.A. Dayananda was the Honorary Auditor.

Dr. Dayananda left Singapore before the Society's

accounts were ready for auditing. The Committee, in accordance with Rule 48 of the Society, elected Dr. Peter C. T. Tung to take his place.

Activities of the Society during the year

(I) Lectures. The Society organized fourteen lectures. Of these one was a presidential address - public lecture $[\alpha, \beta]$, ~~three~~ were public lectures $[\beta]$ and nine were colloquium talks. Of the colloquium talks, one was held jointly with the Department of Mathematics, University of Singapore $[\lambda]$. The following is a list of the lectures.

<u>Date</u>	<u>Title</u>	<u>Speaker</u>
14.2.75	$[\beta]$ Mathematics in the school curriculum	Dr. Ruth Wong Institute of Education
15.3.75	$[\alpha]$ An elementary problem concerning the greatest common divisor	Prof. P. H. Diananda University of Singapore
11.4.75	The arithmetic of a group	Dr. M. J. Wicks University of Singapore
25.4.75	$[\beta]$ Ch'in Chiu-Shao and the Chinese remainder theorem	Dr.(Mrs.)Lam Lay Yong University of Singapore
15.5.75	Maximum flow in a vertex weighted network	Dr. Chan Gin Hor Nanyang University
3.7.75	From <u>the</u> logical point of view	Dr. Chong Chi Tat University of Singapore
31.7.75	$[\lambda]$ Conway's numbers — great and small	Prof. E. C. Milner University of Calgary, Canada

14.8.75	An algorithm for determining Frattini sublattices of finite distributive lattice	Dr. Koh Khee Meng Nanyang University
28.8.75	[β] Magic squares and doodling	Dr. Lee Peng Yee Nanyang University
18.9.75	The parallel postulate: anatomy of a geometry	Dr. Leong Yu Kiang University of Singapore
9.10.75	On binary quadratic programming	Dr. Ta Huu Phuong University of Singapore
22.10.75	[β] Certainty within uncertainty	Dr. Louis Chen Hsiao Yun University of Singapore
27.11.75	Note on conditional probability	Dr. Ling Kiong Doong Nanyang University
18.12.75	Tabular algorithms for the shortest path and the longest path	Dr. Shee Sze Chin Nanyang University

(II) Talks to schools. At the request of the Catholic Junior College, the Society arranged the following two talks for the College:

<u>Date</u>	<u>Title</u>	<u>Speaker</u>
15.9.75	An elementary problem whose solution can lead to fame	Dr. Ng How Ngee University of Singapore
13.10.75	Non-euclidean geometry from the euclidean point of view	Dr. Leong Yu Kiang University of Singapore

(III) Publications. Two issues (1973 and 1974) of the Bulletin and three issues of the Mathematical Medley were published during the year.

(IV) Inter-school Mathematical Competition. The Society organized a pre-university level inter-school mathematical competition on 2 June 1975 at the National Junior College. A total of 123 students from 23 secondary schools and junior colleges took part. A prize-giving ceremony was held on 3 September 1975 at the Hwa Chong Junior College. Mr. Chan Kai Yau, the Director of Education, was the guest speaker on that occasion.

The results of the competition are as follows:

Team Results

<u>Position</u>	<u>School</u>	<u>Team members</u>
1.	National Junior College	Loh Han Tong Teo Siong Khow Tsai Wei Kang
2.	Monfort Secondary School	Chiam Thor Itt Fang Yea Saen Quek Ser Tong
3.	National Junior College	David Chua Tan Ngiap Hoe Wong Hong Mun

The National Junior College was awarded the Singapore Mathematical Society Challenge Shield for sending in the winning team. All members of the above teams each received a book prize.

Individual Results

<u>Position</u>	<u>Competitor</u>	<u>School</u>
1.	Teo Siong Khow	National Junior College
2.	Chew Tuan Chiong	Raffles Institution
3.	Tay Yong Chiang	Raffles Institution
4.	Chan Hock Chuan	Hwa Chong Junior College
4.	Loh Han Tong	National Junior College
4.	Wong Hong Mun	National Junior College

The winner Teo Siong Khow received the SEAMS (Southeast-Asian Mathematical Society) prize of US\$100.00 and a book prize. The next five individuals received cash prizes of S\$75.00, S\$75.00, S\$50.00, S\$50.00, S\$50.00 respectively and also a book prize each.

The following students were highly commended for their good performance and received a book prize each: Fang Yea Saen of Monfort Secondary School, Hee Juay Guan of Hwa Chong Junior College, Quek Ser Tong of Monfort Secondary School, Siew Chee Kin of St. Joseph's Institution, and Wong Chee Teck of Anglo-Chinese School.

The cash prize of US\$100.00 was donated by the Southeast Asian Mathematical Society and the other cash prizes by the Lee Foundation through the Lee Kong Chian Institute of Mathematics. Part of the book prizes were donated by Federal Publications Sdn. Bhd.

Members of the competition's sub-committee were: Dr. Louis H.Y. Chen (convenor), Mr. Chong Tian Hoo, Dr. Lee Peng Yee, Dr. Ng How Ngee, Dr. Shee Sze Chin and Mr. Yeo Kok Keong.

(V) Refresher Course. The Society decided to conduct a refresher course on "topics in Modern Mathematics" for its members in early 1976. The following sub-committee was appointed to organize the course:

Dr. Chew Kim Lin (Chairman), Dr. Ng How Ngee (convenor)
Mr. Chong Tian Hoo, Dr. Kho Tek Hong, Dr. Shee Sze Chin
and Mr. Yeo Kok Keong.

Membership in SNAS

A move to reconstitute the Singapore National Academy of Science (SNAS) was initiated by Dr. Lee Chiaw Meng, the president of the Academy, in January 1975. The aim was to form a new SNAS which would comprise a number of scientific and professional societies as members. The presidents and the secretaries of five societies, namely, the Institute of Physics, Singapore (IPS), the Science Teachers' Association of Singapore (STAS), the Singapore Institute of Biology (SIBiol), the Singapore Mathematical Society (SMS) and the Singapore National Institute of Chemistry (SNIC) were invited to attend a meeting. The SMS ^{agreed} in principle to the formation of a new SNAS. As a result of the meeting, a working committee was formed which was entrusted with the responsibility of drafting a constitution for the new SNAS. In the meantime, SNAS proposed to change its name to the Singapore Association for the Advancement of Science (SAAS), which was subsequently approved by the Registrar of Societies.

In December 1975, two representatives from each of the above six societies (including SAAS) met and formed the Interim Council of the new SNAS whose membership would now consist of societies and elected fellows. In the meeting, the representatives agreed to accord each of the above six societies the status of Founder Member. The annual subscription of each Founder Member is \$100.00.

The representatives of SMS to the Interim Council are Dr. Louis Chen Hsiao Yun and Dr. Chew Kim Lin.

Membership in IMU

In order to help facilitate the support of the Inter-

national Mathematical Union (IMU) for mathematical activities in this region, the Committee in one of its Meetings considered the possibility of "joining" IMU. As the annual subscription is approximately S\$600.00, which is a substantial amount, the Committee decided to resolve the matter at a Special General Meeting. A Special General Meeting was therefore held on 9 October 1975 and the following resolution was adopted:

"That the Singapore Mathematical Society apply to the International Mathematical Union to be considered as the National Adhering Organization for Singapore".

A letter of application for membership has been sent to the Secretary of IMU.

Grants

The Society has been promised a grant of \$4000.00 from the Lee Foundation through the Lee Kong Chian Institute of Mathematics for the period 1975/76. Of this amount \$2000.00 has been received.

Library

The library was hardly used by members.

Finance

This item is covered in the Treasurer's Report. The Society wishes to place on record its thanks to the Honorary Auditor, Dr. Peter C. T. Tung, for scrutinizing the accounts.

Acknowledgement

The Committee wishes to thank the individuals, institutions and organizations who have in one way or another helped the Society in the year 1975. The Society also wishes to thank the Lee Foundation through the Lee Kong Chian Institute of Mathematics for the grant.

Louis H. Y. Chen
(Honorary Secretary)