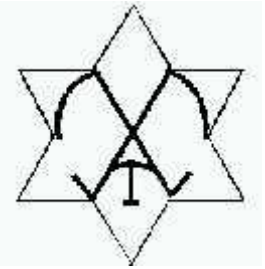
THE TANZANIAN MATHEMATICAL BULLETIN



MATHEMATICAL ASSOCIATION OF TANZANIA/CHAMA CHA HISABATI TANZANIA (MAT/CHAHITA)

50 YEARS OF MATHEMATICAL ASSOCIATION OF TANZANIA: 1966 - 2016

Dr. Sc. Isambi Sailon Mbalawata and Mr. Watson Levens

CELEBRATING 50 YEARS OF THE ASSOCIATION



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PREFACE

With effect from 1978, the Tanzania Mathematical has been publishing the MAT Bulletin. The main aim of the bulletin has been to stimulate interest in Mathematics among primary school pupils and secondary school students. The 2016 bulletin is like a summary of what has happened since the establishment of the association. Due to technology, some of important information were not recorded.

The Editorial Board, on behalf of MAT, would like to thank MAT national committee members for their support on production of this bulletin. On behalf of MAT, we would like to thank sponsors who supported MAT during the last fifty years. We believe, they will continue supporting the association for betterment of Mathematics in our country.

Finally, we would like to thank all individuals (Mathematicians and non-mathematicians) who have been very close and cooperative in attaining MAT objectives.

Dr. Isambi Sailon Mbalawata
MAT Chief Editor
September, 2016

Mr. Watson Levens
MAT Assistant Chief Editor
September, 2016

1.0 INTRODUCTION

The launching of **SPUTNIK I (**the first artificial Earth satellite**)** by the Soviet space scientists, in 1957, shocked the world and hence great nations examined and changed their school curricula. These changes affected the third world countries, which lead to introduction of new programmes. For example, the Entebbe Project and the School Mathematics Projects were, in 1962, introduced in East Africa. With these new changes, a series of Mathematics seminars were organized in Tanzania. In January 1966, the seminar was held for two weeks in Dar es Salaam, at the University College, Dar es Salaam. During this seminar, there was a discussion on possibility of establishing an association of Mathematics teachers in Tanzania. Between 1630hrs and 1830hrs, on 11th January, 1966, the seminar participants agreed to establish the association and called it MATHEMATICAL ASSOCIATION OF TANZANIA (MAT).

It was agreed that the association is a subject association under the patronage of the Department of Mathematics, University of Dar es Salaam, with the primary goal of bringing an improvement in the teaching and learning of mathematics at the primary and secondary schools, teacher training colleges and tertiary institutions in Tanzania. The association was duly registered by the registrar of Societies in the Ministry of Home Affairs on 15th April, 1966 and given registration number **SO No. 5131**.

The English name of the association, abbreviated MAT has remained intact while its Swahili equivalent was CHAMA CHA HESABU TANZANIA which was proposed in 1973. In 1978 the Swahili translation of MAT was changed to CHAMA CHA HISABATI TANZANIA and abbreviated CHAHITA. These changes of the association Swahili names were approved by the Ministry of Home Affairs on 10th August, 1979.

Since the establishment of the association, the MAT main objectives have been to:

- effect improvements in the teaching of Mathematics and its applications
- provide means of communication for this purpose
- take such measures as may appear expedient to advance the views of the Association on any question affecting the study and teaching of Mathematics and its applications.

To attain the objectives, the association has committee comprising of officers of the association, committee members and representatives of designated MAT 'region'.

The MAT has, through the years, carried out its activities through the following means;

- Publication of its journal called the MAT Bulletin.
- Organization of Mathematics contests. There are two types of contests; Junior Contests for Form 3 – 4, and Senior contests for Form 5 – 6. MAT encourages schools to participate international competitions such as the all African Mathematical Union (AMU) Olympiads.
- Organization of students research competitions.
- Organization of seminars and conferences.
- Organization of Regional programmes which include; regular meetings to share ideas, setting common schemes of work and production of regional publications.
- Lecture of the year
- Book writing
- Mathematics clubs
- Teaching Aid exhibition competitions
- Pi-day celebrations

2.0 MAT LEADERSHIP

MAT, since its establishment, has been under different leadership. Constitutionally, the MAT leadership can be grouped into two categories. There are national leaders and zonal leaders. The national leaders make the national committee (NC) members, who conduct their monthly meetings at the department of Mathematics, UDSM. The zonal leaders are found in the regions. The top six NC-leaders are the chairperson, secretary, treasurer, chief editor, contest organizer and research organizer. In 1966 to 1986, the records do not show who the contest and research organizers were. The following table shows the top SIX NC management.

2.1 MAT Top five NC Leaders

YEAR	CHAIRPERSON	SECRETARY	TREASURER	CHIEF EDITOR	CONTEST ORGANIZER	RESEARCH ORGANIZER
1966	Mr. T Heard	Mr. S. Swinton	Mr. T Wagi	Dr. A Beninati		
1967 – 1971	Dr. J. E. Phythian	Mrs. E. Peera	Sr. Linda	1. 1967: Dr. A Beninati 2. 1968: Dr. D. Woodhouse 3. 1969-1970: Dr. C. M Mullins 4. 1971: Dr. T. Heaps		
1972	Dr. D. Cappitt	Drs. N. Noort	Mr. M. Nguma	Drs. N. Noort		
1973 – 1974	Mr. G. Mmari	Drs. N. Noort	Mr. M. Nguma and D. E. Hauli	Drs. N. Noort		

1975 – 1976	Mr. M. S. Muze and G. Mmari (from August 1976)	Dr. H. Karanda	1975: Mr. H. L. Nchimbi 1976: Mr. W. T Kwalazi and Dr. Cappitt (from August 1976)	1. 1975 Mrs. J. C. Coulson 2. 1976 Mr. G. R. Koda		
1977 – 1981	Dr/Prof. G. Mmari	1. 1977-1978: Ms. N. Baer 2. 1979-1981: Mr. W.T Kwalazi	1. 1977-1980: Dr/Prof. D. Cappit 2. 1981: Dr. A.S. Mshimba	1. 1977-1978: Mr. G.R. Koda 2. 1979-1981: Dr. B. Manja		
1982 – 1986	Mr. G.S. Noah	1. 1982-1984: Mr. A. Mwambongela 2. 1985-1986: Mr. W. T Kwalazi	Dr. A. S Mshimba	1. 1982-1984: Mr. T. R. Lisso 2. 1985-1986: Dr. B. A. Manja		
1987 – 1990	Prof. R. Masenge	Mt. F. D. Sichizya	Mr. G. S. Noah	Mr. F.S.S Swai	Dr. A.S.A Mshimba	Mr. R.A. Mpama
1991 – 1992	Prof. V. G. Masanja	Mr. B. R. Seka	Mrs T. A. Lyana	Dr. C. B. Alphonce	Prof. A. S. Mshimba	Mr. Kwalazi
1993 – 1994	Prof. V.G. Masanja	C.B. Alphonce	Mrs. T. A Lyana	Dr. M.J. O'Reilly	R.W.P. Masenge/W.T. Kwalazi	B.R. Seka

1995 – 1996	R.W.P. Masenge	Mrs. T. A Lyana	V.G. Masanja	B.A. Manja	Prof. A. S. A Mshimba	B.R. Seka
1997 – 1998	Prof. A. S. A Mshimba	Mrs. T. A Lyana	Prof. V.G. Masanja	R.W.P. Masenge	B.R.Seka	F.D. Sichizya
1999 – 2000	Prof. A. S. A Mshimba	Mrs. R. K. Buluda	Mrs A.K. Ishengoma	R.W.P. Masenge	Dr. C.B. Alphonce	F.D. Sichizya
2001 – 2002	Mrs. R. K. Buluda	Prof. A. S. A Mshimba	Mrs. T. A Lyana	Dr. A. R. Mushi	Prof. A. S. A Mshimba	B.M. Ndotela
2003 – 2004	Mrs. R. K. Buluda	Prof. A. S. A. Mshimba	Mrs. T. A Lyana	Dr. A. R. Mushi	Dr. S. Rugeihyamu	S.J. Mushi
2005 – 2006	Dr. E.S. Massawe	Mrs. T. A. Lyana	Mrs R. K. Buluda	Mr. E. Mujuni	Prof. A. S. A Mshimba	B.R. Seka
2007 – 2008	Mr. Ng'wanasumayi P. Wajimila	Mrs Ruth K. Buluda	Dr. Egbert Mujuni	Mr. Said Sima	Mr. Makungu Mwanzalima	Mr. B. R. Seka
2009 – 2011	Mrs. R. K. Buluda	Dr. S. Rugeihyamu	Dr. E. Mujuni	Dr. A. R. Mushi	Mr. D. Koloseni	Mr. B.R. Seka
2012 – 2015	Dr. S. Rugeihyamu	1. Mr. M. Wageleja 2. Ms. Ratera, S. M. 3. Ms. B. Manyama	Mrs. R. K. Buluda	1. Dr. E. Mujuni 2. Dr. H. Rwezaura	1. Dr. G. K Kakiko 2. Mr. U. Ngulo	2012 – 2013: B.R. Seka
2016 - 2017	Dr. S. Sima	Ms. B. Manyama	Ms. G. Samwel	Dr. I. S. Mbalawata	Dr. David Koloseni	Dr. E. Kibga

The current MAT national and zonal leaders for the period January 2016 to December 2017 are shown in the table below.

2.2 National Committee Members for 2016/2017

S/N	POSITION	CANDIDATE NAME	INSTITUTION/SCHOOL
1.	Chairperson	Dr. Said Sima	Maths Department, UDSM 0713496638 said.sima@gmail.com
2.	Acting National Secretary	Ms. Betinasia Manyama	Boko Secondary School 0716035874 betinasiamanyama@gmail.com
3.	Treasurer	Ms. Gulila Samwel	Juhudi Secondary School, DSM 0754427968 gmusyani@gmail.com
4.	Chief Editor	Dr. Isambi Sailon	Maths Department, UDSM 0769027764 mbalawata@yahoo.com
5.	Editors	1. Mr. Watson Levens 2. Ms. Joan Joshua	Maths Department, UDSM 0714217333 watsonlevens@yahoo.com Kisota Secondary School 0785759494 joannkongo@gmail.com
6.	Contests Organizer	Dr. David Koloseni	Maths Department, UDSM 0718919148 davykol@yahoo.co.uk
7.	Patron	Prof. Eunice Mureithi	Head – Maths Depart , UDSM 0683059964 ewambui02@gmail.com
8.	Honorary Member & Research Competition Organizer	Dr. Elia Kibga	Director-Tanzania Institute of Education 0715376242 / 075437624 kibgaelia@yahoo.co.uk

9.	Representatives of Primary Schools	Ms. Sarah Peter Mr. Method Chengula	Mbande primary School 0652451248 / 0769254234 sarahpeter238@gmail.com Mlimani Primary School 0715667146
10.	Representatives of Secondary Schools	Mr. John Mtumbuka	Vingunguti Secondary School 0716907690
11.	Representative of Technical Institutions	Mr. Talemwa Kahoza	ICT VETA College, Dar es Salaam 0754392422 talemwakahoza@gmail.com
12.	Representative of COSTECH	Dr. G. Kafuku	COSTECH 0766604977 kafukugm@gmail.com
13.	Representative of TIE	Mr. Makoye Wangeleja	TIE 0782524530 wangeleja@yahoo.co.uk
14.	Representative of NECTA	Mr. Y. Baluhya	NECTA 0786 361516 smbaluhya@yahoo.com
15.	Representative of TAMISEMI		
16.	Representative of Teachers Colleges		

2.3 Zone Leaders

REGION	NAME	SCHOOL/INSTITUTION	PHONE/EMAIL
DSM	John G Mtumbuka **Chairman**		0716907690 mtumbuka12@gmail.com
	Ezekiel J Pwele **Secretary**		0714394560 tphzekia@gmail.com
	Salah Bundara **Treasurer**		0713523973, sarkha53@mail.com
	Ms. Frida Christopher **Matron**	Headmistress Mchichini Sec. School	0713468425 fridarutatika@yahoo.com
	Mr. Joseph Minja **Patron**		0715859199
Dodoma	Athuman S. Mwanja **Chairperson**		0753172585
	Nyakoki Sylvester **Assistant Chairperson**	Dodoma Secondary school	0756324450 nyakoki@yahoo.com
	Treasurer: Mmadi S Mtolela		0787243101
Kigoma	Mr.Nickson Samwel **Chairperson**	Kasingirima Sec. School	0756313940 kasingirimasec@gmail.com / andreasefoundation@gmail.com
	Lissa Shirima, **Secretary**	Kigoma Secondary School	0755390903 lissa.shirima@yahoo.com
	Sayoni M. Kumenya **Treasurer**	Bitale Secondary School	0759709402
	Mr. Itika **Patron** Mr. Ntahondi P.	Headmaster, Munanila Secondary school Headmaster Nyarubanda Secondary school	0753241655

Mbeya	Chairperson Michael Asumwisye Mwanjali	Sangu Secondary School	asumwisyesjs@yahoo.com
	Onesmo Solomon **Secretary**	Uyole Secondary school	0752540277 solomononesmo@yahoo.com
Rukwa	Mr. Mussa Hassan **Representative**	Chanji Sec. School	0712143452, 0758432964 mussachuti@yahoo.com
	Mr. Rahim Said **Representative**	Mwangaza Secondary School	0784223344 rahimsaid@rocketmail.com
Manyara	Mr. K. Mangulale **Chairperson**	Mulbadaw Sec. School,	0786307613
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	Marsely M. AMI	Ganana Secondary School	0787136615
	Ally M. Manda	Gulapo Secondary School	0786667200
	Peter Nada	Gidas Secondary School	0784 652992
Singida	**Chairperson** Mr. Godfrey Yohana		0786254728 yohanagodfrey@yahoo.com
	Ms Elizabert Stanley **Secretary**		0768320769
	Treasurer		
Kilimanjaro	**Chairperson** Mr. Emanuel P Kweka		+255754666713 emmanuel.pauline@yahoo.com
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	Treasurer Ms. V. Temba	Moshi Technical Secondary	0767345541, 0787345541
	Patron: P. F. Kiwia	Ifati Secondary School	0754395556

Kagera	Francis Odhiambo **Chairperson**		0768434543
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	Treasurer: Joachim Yoram		0757348570
	Contest Organiser: Elbert k Ernest		0719678526
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	Vice Chairperson: Willbald L.Mvungi,	Ilboru Secondary School,	0754743982/0784743982, Willbaldm@gmail.com
	Revocatus P. Mwasambogo **Secretary**	St Jude Secondary School,	0656171754, ravo.lucas@gmail.com
	Treasurer: Nyangusi L Laizer,	Sorenyi secondary School	0754909099
Tabora	Mr. George Kazimoto **Chairperson**	Kazima Sec. School	0786039376 Kazimoto.george@yahoo.com
	Mr. Albaria Martin **Secretary**	Tabora Boys Secondary School	
	Mr. J. Isango **Treasurer**	Tabora Teacher's College	
Morogoro	Ms. M. Kinyonga **Chairperson**	Kilakala Sec. School,	0715465051
	Vice Chairperson: Mr Marwa Mosaro	Mgeta secondary school	07130114384
	Secretary: Mr Jackson S Nzije	Educare Secondary school.	0713027602
	Treasurer: Ms Renatha C.	Mlamsha Mzumbe secondary school	0718650653

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	James E. Mduma **Treasurer**	Mwasele Secondary School	0712 190740 jamesmduma@yahoo.com
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	Secretary: Mr. Zawadi Mngumi	Toledo Secondary School	
	Treasurer: Ms B Hoza,	Mkwakwani Secondary School.	
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Ruvuma	Protas L. Komba **Chairperson**	Songea Boys ,	0767680006
	Mng'ong'o G. Mashaka **Secretary**	London Sec School	mmasha70@gmail.com
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	Debora Kasansa **Treasurer**		0787355360 / 0767355360
Simiyu	Revocatus Felix **Chairperson**		0754 842982
	Constantine Mathias **Secretary**		0753 351622
	Anosisye Munjobelege **Treasurer**		kudraanosisye@yahoo.com 0754 958125
Katavi	**Chairperson:** Mr. Simeon M. Lubange		0766757786 lubange67@yahoo.com
	Vice Chairperson: Joseline Levether		
	Secretary: Mr Denis O Mgalla		0769053804
	Treasurer: Sijaona Mkalimoto		

3.0 PI-DAY CELEBRATIONS

Pi-day celebration is a worldwide annual event that is usually celebrated on the 14th March. The common approximation of Pi (represented by a Greek letter π) is 3.14; therefore the event is normally being celebrated on 14th (decimals) of March (3) to recognize its importance and its applications in Mathematics.

Tanzania started to celebrate Pi day in 2004. The Pi day celebrations from 2004 to 2008 were taking place at Tanzania Institute of Education (TIE) and was mainly supported by TIE and coordinated by Mr. Baneil Seka, who by then was an employee of TIE.

Mr Beniel Seka is a pioneer of Pi-Day in Tanzania. He is a retired Chief Curriculum Developer of Tanzania Institute of Education. He has served in the National MAT committee as secretary, assistant Editor of the Mathematical Bulletin and research competition organizer. During his MAT leadership, he conducted a research on problems of teaching Mathematics in Tanzania. This research was funded by the Harold Macmillan Trust (HMT) of United Kingdom. He has been writing mathematics and science books for nursery and secondary schools.

From 2009 it was decided that the Pi day celebration to be organized by MAT/CHAHITA. The main objectives for the Pi-day celebrations in Tanzania are to:

(a) Promote the teaching and learning of Mathematics in Tanzania.
(b) Stimulate the applications of mathematics in real life problems.
(c) Enrich and deepen the students' understanding of the π concept through projects and activities associated with it.
(d) Educate the public on the existence and importance of π.
(e) Reflect on Mathematics situation in Tanzania (performance and its improvement strategies)
(f) Publicize the Mathematical Association of Tanzania, which promotes mathematics in Tanzania.

Various mathematics-related activities have been organized over the years during these celebrations. These include charity walks, posters and exhibitions, singing Pi day songs, presentations about the history of Pi and its applications, mathematics drama, most importantly a speech by the guest of honor which targets to promote mathematics teaching and learning. The following are the recently Pi-day events from 2013 to 2016.

3.1 Pi-day Celebration in 2013

The 2013 the pre- Pi-day celebration was held at Azania Secondary School. At the pre-pi day, a seminar on some applications of mathematics was organized. A total of 320 participants including primary and secondary school students and teachers attended the seminar.

In 2013 the Pi-day celebration took place at Mnazi Mmoja grounds. More than 1,000 participants attended. The guest of honour was supposed to be Mr. Benard Makali the Director of Education for PMoRALG. He was unable to attend and was represented by Mr. Abdul Maulid, the Deputy Director for Education at PMoRALG.

Sponsors of the 2013 Pre-Pi and Pi Day Celebrations were MoEVT/PMoRALG, CWT, NECTA, COSTECH, Eng. Joseph Lwiza, Bakharesa Group of Company Limited, and Pearson Publisher. Other collections were from various individuals.

3.2 Pi-day Celebration in 2014

The 2014 pre- Pi-day celebration was held at Mnazi Mmoja Grounds. About 1000 participants including primary school pupils and secondary school students attended the event. During pre-pi day there were exhibitions from IMAGINARY, PEACE CORPS Volunteers, VIKINDU TEACHERS COLLEGE, AGAKHAN UNIVERSITY, TEMEKE TRC and students from different primary and secondary schools.

The 2014 Pi day celebration was held at Mnazi Mmoja grounds. The guest of honour was Dr. MOHAMED GHALIB BILAL, the vice president of the United Republic of TANZANIA. The event was attended by over two thousand students and teachers from all levels including participants from 3 Universities, 33 Secondary Schools, 14 Primary Schools and one Teacher Resource Centre. IMAGINARY in collaboration with AIMS participated in the two-day events Pre - Pi and Pi - day. This was the first time the SURFER programme had to be displayed in the form of an interactive exhibit in Africa.

Sponsors Of the 2014 Pre-Pi and Pi Day Celebrations were COSTECH, Kilimanjaro Village, NECTA, TCRA, AIMS, CWT, PATA, and Ardhi University. Other collections were from various individuals.

3.3 Pi-day Celebration in 2015

The 2015 Pre- Pi-day celebration was held at Mnazi Mmoja Grounds. About 515 participants attended. Among 450 were from primary and secondary schools students, 48 primary and secondary school teachers, 17 were universities staff. During pre-pi day, there were exhibitions from AIMS, Peace Corps Volunteers, Agha Khan University, and students from different primary and secondary schools. The event was also celebrated through displays of books published by MAT, Pearson Publisher and Oxford University Press.

The Pi-day celebration took place at Mnazi Mmoja grounds. More than 1055 participants attended 2015 Pi-day celebration. The guest of honour was supposed to be honorable Anna Kilango Malecela (MP), Deputy Minister of the Ministry of Education and Vocational Training (MoEVT). She was unable to attend and was represented by Ms. Paulina Mkonong'o the Director of Secondary School Education at MoEVT.

Sponsors Of the 2015 Pre-Pi and Pi Day Celebrations were TCRA, TIE, NECTA, Pearson and COSTECH. AIMS Tanzania for the first time participated on Pi-day celebration as a partner of MAT/CHAHITA. This is first organization to announce officially to work with the association on the organization of Pi day. With MAT/CHAHITA and AIMS the events of Pi-day in the near future are going to improve and to attract the community.

3.4 Pi-day Celebration in 2016

Contrary to previous years, this year we had no pre pi-day celebrations due to financial problems.

The 2016 Pi day celebration took place at Mnazi Mmoja grounds and the guest of honour was supposed to be honorable Prof. Joyce Ndalichako (MP), the Minister of the Ministry of Education, Science, Technology and Vocational Training (MoESTVT). The minister was unable to attend and was represented by Ms. Paulina Mkonong'o, the Director of Secondary School Education at MoESTVT.

About 30 primary and secondary schools prepared Mathematics Teaching Aids for exhibitions. Also, the event was attended by individual retired mathematics teachers and teachers' training colleges as well as Aghkhan

University, AIMS-Tanzania and Corp Volunteers. Generally, the turn-up was not good. The main reason is that most of schools in Dar es Salaam and Coast regions were starting their midterm exams, or they were already in those exams. As the result, the event was attended by only around six hundred students and teachers from all levels including participants from 3 Universities, 30 Secondary Schools, 14 Primary Schools and one Teacher Resource Centre.

Sponsors Of the 2015 Pre-Pi and Pi Day Celebrations are TCRA, TIE, NECTA, UDSM, DIT, Pearson and AIMS-Tanzania. Other collections were from various individuals.

4.0 MATHEMATICS CONTESTS

One of main activities organized and run by MAT/CHAHITA is the junior and senior Mathematics Contests. The activity has been in place for almost 50 years ago. The first Junior Mathematics contest was conducted in 1967. In general, the junior contest is organized for students in Forms 3 – 4, and the senior contest is for students in Forms 5 – 6. The main objective of these contests is to stimulate the interest in mathematics and problem solving. Moreover, the contests aim at promoting excitement, enthusiasm, and positive attitudes towards mathematics.

The contests are organized to focus at respective students in all regions in Tanzania. Letters of invitations are sent by MAT/CHAHITA to respective school authorities, which are required to send names of their students whom they think are capable of participating in these contests. The contests are normally scheduled for September, few days after MAT/CHAHITA's National Seminar. This is a time before National Form Four Examinations commence.

The contests are mainly taking the current syllabi in mind and provide an opportunity to apply the concepts taught to the students. Most problems are designed to challenge students and to offer problem-solving experiences beyond the common provided in most mathematics classes.

The following table shows the best three winners and their schools since establishment of MAT junior and senior contests. Also,

4.1 MAT Junior Contest Winners

YEAR	WINNERS	SCHOOL NAME
1966	Did not start	
1967	1. Gulam Abbas	Chopra Secondary School (now called Mwanza Secondary School)
	2. Siraj Kanji	Dodoma Secondary School
	3. Jitendra Sanyani	Azania Secondary School
1968	No Records	
1969	1. Sadrudin Veja	Aga Khan Secondary School
	2. Nayar H. Shah	Mawenzi Secondary School
	3. Yasmin K. H. Bhanji	Aga Khan Secondary School
1970	1. Adity Gupta	Mwanza Secondary School
	2. Jerome Njau	Pugu Secondary School
	3. Salimu Kanji	Tambaza Secondary School
1971	1. Emmanuel Mkussa	Lugalo Secondary School
	2. Faustine Rutahoile	Kahororo Secondary School
	3. Mohamed Kaseko	Ifunda Technical Secondary School
1972	1. Estomih Martin	Moshi Secondary School
	2. Utyatya Kafu	Kazima Secondary School
	3. Genes Kaduri	Kibaha Secondary School
1973	1. Dalmas Lusas	Mara Secondary School
	2. Adarsh Bali	Azania Secondary School
	3. Em. Mutoni	Mazengo Secondary School
1974	1. Salvatory Lugemarila	Kahororo Secondary School
	2. Teretius Rugimisa	Mawenzi Secondary School
	3. William J.K.M. Mbwambo	Moshi Tech. Secondary School
1975	1. Julius Mbunile	Kantalamba Secondary School
	2. Letson Swella	Kantalamba Secondary School
	3. Chhote Mohsin Najafailo	Forodhani Secondary School
1976	No records	
1977	No records	

1978	1. Juma Ramadhani	Kahororo Secondary School
	2. Nehemiah Stephen	Ifunda Secondary School
	3. Joseph Zunzu	Milambo Secondary School
1979	No records	
1980	1. Wilfred P. Sikamba	Lyamungu Secondary School
	2. Siogciebert Massawe	Same Secondary School
	3. Faustin L. Gwacha	Moshi Secondary School
1981	1. Herbert C. Makokola	Kigonsera Secondary School
	2. Poncet Kumar	Shaaban Robert Secondary School
	3. Joseph Mbele	Kigonsera Secondary School
1982	1. Lilian M. Mtei	Weruweru Girls Secondary School
	2. Adam M. Mjovu	Jumuiya Secondary School
	3. Mary K. Msoffe	Ashira Secondary School
1983	1. Mustafa Gulamabbas Kudrad	Tambaza Secondary School
	2. Karim Rajan	Mzizima Secondary School
	3. Elhanam Abimael	Kibaha Secondary School
1984	1. Shalil R. Majithia	Shaaban Robert Secondary School
	2. Josephat Edward	Mbeya Secondary School
	3. Dominick P. Nkwama	Ruvu Secondary School
1985	1. Shaaban H. Said	Mazengo Secondary School
	2. Thadeo Cosmas	Ifunda Secondary School
	3. Timothy Mhagama	Ifunda Secondary School
1986	1. Benson J.M. Mahenga	Mbeya Secondary School
	2. Innocent J. Msasi	Mbeya Secondary School
	3. Renatus Swaya	Ihungo Secondary School
1987	1. Nickson Ismaeil	Mawenzi Secondary School
	2. Felohesmi Joseni	Moshi Secondary School
	3. Peter Ulanga	Azania Secondary School
1988	1. Abdil Rashid Mohammed	Azania Secondary School
	2. Charles Patric	Azania Secondary School
	3. Peter Ulanga	Azania Secondary School

1989	No contest	
1990	No records	
1991	No contest	
1992	No contest	
1993	No contest	
1994	1. Dickson Humphrey	Old Moshi S.S.
	2. Eliezer Antony	Mazengo S.S.
	3. Tumaini Geofrey	Same S.S.
1995	1. Holela Nyanda	Mwanza S.S.
	1. Mohamed S. Hajirin	Arusha-Meru S.S.
	2. Stephano J. Mkande	Usagara S.S.
	3. Anael Samwel	Lugalo S.S.
	4. Novatus A. Odasa	Kazima S.S.
1996	1. Mohamed Ngingite	Mzumbe Sec School
	2. Lameck Methusela	Ilboru Sec School
	3. Kitembo Salum	Mzumbe Sec School
1997	No Record	
1998	1. Sadath Kalolo	Tosamaganga S.S.
	2. Nicholaus Josephat	Lake S.S.
	3. Panckras Makungu	Mazwi S.S.
	BF: Dhelda Mfanga	Weruweru Girls S.S.
1999	Not Done	
2000	Ola Johanpour	Ruaha S.S.
	Muzarah Mohamed	Ilboru S. S.
	Alexander Mkuzwi	Kibaha S. S.
	BF: Amit Patel	Arusha S.S.
2001	Melkior B. Kisoka	Bagamoyo S.S.
	Fatema R. Dhallas	Al-Muntazir Seminary
	Eliakim W. Mwakapiso	Airwing S.S.
	BF: Fatema R. Dhallas	Bagamoyo S.S.
2002	Donald Johnas	Mzumbe S.S.
	Erick G. Kabula	Mzumbe S.S.
	Egird R. Silabi	Mzumbe S.S.
	BF: Upendo John Kimbe	Kifungilo S.S.

2003	Joseph Mathayo	Tabora Boys S.S.
	Joseph Bundala	St. Anthony S.S.
	Majaliwa Mringo	Agape S.S.
	BF: Elizabeth Riwa	Kifungilo S.S.
2004	No records	
2005	No records	
2006	No records	
2007	No records	
2008	1. Mike Majham	Agape Lutheran Seminary
	2. Noel C. Lema	Agape Lutheran Seminary
	3. Jovita Byemelwa	St. Francis Girls' Secondary School
	3. Christina Rugamuikamu	Brooke Bond Secondary School
2009	1. Alex Hussein	Enyoito Secondary School
	2. Diana Matwambwa	St. Francis Girls' Secondary School
	3. Boniface D. Mselle	Franciscan Maua Seminary
2010	1. Victor Francis Mavika	Fountain of hope christian
	2. Mboni Maumba	St. Francis Girls' Secondary School
	3. Walter Wilfred Sila	Fountain of hope christian
2011	1. Godlove Daniel Malecela	Mzumbe Secondary School
	2. Raymond Mshuza Makaya	Loyola Secondary School
	3. Nelson Mwakasiga	Mzumbe Secondary School
	BF: Lisa Gregory Chille	St. Francis Girls' Secondary School
2012	1. Said Atwaya Nchimbi	Feza Boys Secondary School
	2. Mgaya Ramadhan Makullah	Feza Boys Secondary School
	3. Adnan Khamis Al-Jabry	Feza Boys Secondary School
	BF: Bridget L. Ndumbalo	St. Francis Girls' Secondary School

2013	1. Julian M. Ilunga	Kitangila Secondary School
	2. Haji Hassan Gonga	Feza Boys Secondary School
	3. Enock Kidugwa	Moshi Tech. Secondary School
	BF: Rumaiswaa A. Mohamed	Shaaban Robert Secondary School
2014	1. Jessey Mohd Mohamed	St. Francis Girls' Secondary School
	2. Donel Lot Chihoma	Loyola High School
	3. Dickson Wilson Laizer	Ilboru Secondary School
2015	Sang'udi Emmanuel	Ilboru Secondary School
	Given N. Kamage	Mzumbe Secondary School
	David Joseph	Ilboru Secondary School
	Janet Panes Mbilinyi	Brooke-Bond Secondary School

4.2 MAT Senior Contest Winners

YEAR	WINNERS	SCHOOL NAME
1966 – 1972	Did not start	
1973	1. Aftab Efrahim	Mazengo Secondary School
	2. Leonard Tennende	Mazengo Secondary School
	3. Charles Bagenda	Mazengo Secondary School
1974	1. Bakari Shekimweri	Moshi Secondary School
	2.Christmas Maheri	Mazengo Secondary School
	3.Mrunge A.A. Macha	Usagara Secondary School
1975	1. Almas Nyaoro	Mazengo Secondary School
	2. Jeremiah Sabwera	Mazengo Secondary School
	None	
1976	No records	
1977	No records	
1978	1. Silas Kisimbo	Mkwawa Secondary School
	2. Dominic Joseph	Mkwawa Secondary School
	3.Ali Mfuruki	Moshi Secondary School
1979	No records	

1980	1. Romina Visanji	Jangwani Girls Secondary School
	2. Praiso Lisso	Moshi Secondary School
	3. Perpetua Kessy	Jangwani Secondary School
1981	1. Moshi Mbuyabuye	Tanga Secondary School
	2. Maftali S. Mshana	Moshi Secondary School
	3. Hassan Omary Ali	Lumumba Zanzibar
1982	1. Saadat Y. Girnary	Kibaha Secondary School
	2. Vedasto R. Kahungu	Pugu Secondary School
	3. Jonath Mnyone	Pugu Secondary School
1983	1. Suzanne L. G. Mkwawa	Jangwani Secondary School
	2. Arnold M.N. Kato	Kibaha Secondary School
	3. Jereys Mutalemwa	Kibaha Secondary School
1984	1. Jasper B. Joseph	Mazengo Secondary School
	2. Azizi Omar Abeid	Moshi Secondary School
	3. Juma Nasib	Kibaha Secondary School
1985	No winner	
1986	1. Asheri T. Ruheta	Usagara Secondary School
	2. Omar L. Omar	Karume Secondary School
	3. Allen Moova	Mazengo Secondary School
1987	1. Dominick R. Mkwama	Ilboru Secondary School
	2. Raphael Mfundo	Kibaha Secondary School
	3. Omar H. Ali	Karume Technical Secondary School
1988	1. Beodory Muyuni	Moshi Secondary School
	2. Stephen Martin	Azania Secondary School
	3. Yusuph S. Yusuph	Ilboru Secondary School
1989	1. Mubashir T. Hussein	Mzizima Secondary School
	2. Rjiv Asher	Mzizima Secondary School
	3. Charles Daniel	Pugu Secondary School
1990	No records	
1991	1. Salma Gulam	Kibaha Secondary School
	2. Clement Mwakalosi	Usagara Secondary School
	3. Boniface Hanga	Kibaha Secondary School
	BF: Veronica Sarungi	Jangwani Secondary School

1992	1. Abdil Rashid	Tambaza Secondary School
	2. Thomas Neligwa	Tanga Technical School
	3. Charles Karugendo	Pugu Secondary School
1993	No contest	
1994	No contest	
1995	1. Jatin M. Thaker	Mzizima Secondary School
	2. Tejas A. Mehta	Mzizima Secondary School
	3. Fayaz A. Bhojani	Mzizima Secondary School
	3. Gabriel Gervas	Ilboru Secondary School
1996	1. Dhaval Lodhia	Uyui Secondary School
	2. Kalipesh Asher	Mzizima Secondary School
	3. Joseph Mwangoka	Mzumbe Secondary School
1997	1. Mwesiga Kasenene	Mzumbe Secondary School
	2. Joel Mugangala	Mzumbe Secondary School
	3. Omary Ally	Mzumbe Secondary School
	BF: Nima Herman	Uyui Secondary School
1998	1. Holela Nyanda	No record
	2. Godwin Habib	No record
	3. Geoffrey Mongellah	No record
1999	1. Samwel Sekwao	Mzizima Secondary School
	2. Erick Jackson	Ilboru Secondary School
	3. Moses Makoko	Ilboru Secondary School
	BF: Rebecca Gembe	Lutheran Junior Seminary
2000	1. Peter Nalitolela	Mzumbe Secondary School
	2. Thadey W. Msaki	Ilboru Secondary School
	3. Edgar Mushokolwe	St. Anthony Secondary School
	BF: Lydia Mgarula	Nganza Girls Secondary School
2001	1. Michael Kinenekejo	Ilboru Secondary School
	2. Edgar Mushokolwa	St. Anthony Secondary School
	3. David Chamla	Tabora Boys Secondary School
	BF: Editha Didas	Tabora Girls Secondary School
2002	1. Rweyemamu Barongo	Mzumbe Secondary School
	2. Emil Patrick	Mzumbe Secondary School
	3. Saranga Gopal	Mzizima Secondary School
	BF: Mariya Z. Badrudin	Mzizima Secondary School

2003	1. Emmanuel P. Kimbe	Mzumbe Secondary School
	2. Stephen Samson	Tabora Boys Secondary School
	3. Enock Chilongani	Mzumbe Secondary School
	BF: Sanya Isima	Nganza Secondary School
2004	1. Vinay Vijas	Shaaban Robert Secondary School
	2. Mohamed S. Bisarara	Shaaban Robert Secondary School
	3. Kapi Vijas	Shaaban Robert Secondary School
	BF: Angelina Z. Misso	Shaaban Robert Secondary School
2005	Omari Zuberi	Tabora Boys Secondary School
	James Kitiganda Kirahuka	Tabora Boys Secondary School
	Mustapha Z. Noorbhai	Shaaban Robert Secondary School
	BF: Angelina Z. Misso	Shaaban Robert Secondary School
2006	No records	
2007	No records	
2008	No records	
2009	No records	
2010	No records	
2011	1. Taher M. Saylawalla	Almuntazir Islamic Seminary
	2. Levina James Shewina	Agape Lutheran Seminary
	3. Hamza E. Vajihee	Almuntazir Islamic Seminary
2012	1. Zamwata Mwevy	Marian girls' sec. School
	2. Erica C. Mtenga	Marian girls' sec. School
	3. Julieth Germin	Marian girls' sec. School

2013	1. Aigidius A. Rugakingila	Ilboru Secondary School
	2. Baraka A. Mwashambwa	Mzumbe Secondary School
	3. Lordrick A. Kahinga	Shaaban Robert Secondary School
	BF: Pelucy John	Nganza Girls Secondary School
2014	1. Lugman A Almasi	Kisimiri Secondary School
	2. Ricknelson Kigodi	Ilboru Secondary School
	3. Noel Kageuka	Loyola High School
	BF: Leticia George	Arusha Morden Secondary School
2015	1. Emil Francis	Kisimiri Secondary School
	2. Goodluck Johannes Oyolla	Mzumbe Secondary School
	3. Husain Huzeifa Adamji	Shaaban Robert Secondary School
	BF: Leah M Mnyilwana	Nganza Secondary School

MAT has been awarding material things to all winners. Also, all students who participate in the contests and get marks above the given threshold have been given certificates. In most cases, the winners are given monetary award, Mathematics books, Mathematical calculators, Mathematics dictionaries andior trophies.

MAT has not only conducted the junior and senior contests, there are other international contests. For example, in 1971 three countries (Kenya, Tanzania and Zambia) participated in international mathematics contest, from which Kenya won 5 prizes while the remaining countries had each won 6 prizes. The following table shows the names and school of the best three students. Note that, in 1973, the IMC was not conducted; instead the Eastern African Regional Contest was done.

4.3 International Mathematics Contest (IMC)

YEAR	WINNER	SCHOOL	COUNTRY
1971	1. Nicholas Dokos	Kabulonga Boys Secondary School	Zambia
	2. George Muthuuri	Allieance High School	Kenya
	3. Emmanuel Mkussa	Lugalo Secondary School	Tanzania
1972	1. J. J. Rumney	Lenana Secondary School	Kenya
	2. Azmeena Mushani	Agha khan Secondary School	Uganda
	3. Estomih Marthin	Moshi Secondary School	Tanzania
1973	1. R. E. M. Strid	Lenana Secondary School	Kenya
	2. Balmas Lucas	Mara Secondary School	Tanzania
	3. Philip da Costa	No record	Kenya

5.0 RESEARCH COMPETITION

Research competitions were introduced in 1973, and the first one took place in the same year. The main objective of MAT research competitions is to encourage and promote research activities among pupils, students and teachers. Generally, there has been a poor response or no full participation from/or students teachers, as seen in Table below. For example, there has been no research competition from 2003 to date.

5.1 MAT Research Competitions

YEAR	TOPIC	WINNER
1973	Traditional ways of counting and measuring	Mazengo MAT Branch
1974	The use of Geometry in everyday life	Usagara Secondary School
1975	Which Mathematics is suitable in Tanzania?	Likonde Seminary
1976	Use of Mathematics in Agriculture	Mtwara Girls Secondary School
1977	Data collection and Use of Statistics in a Tanzania village	Iringa Girls Secondary School
1978	Kilimo cha Tumbaku – Nzihi	---
1979	---	1. Jangwani Girls Secondary School 2. Shira Girls Secondary School
1980	Winner was not announced in Open	
1981	--	
1982	No awards given	
1983	No awards given	
1984	No awards given	
1985	No awards given	
1986	---	1. Tambaza Secondary School 2. Ashira Girls Secondary School 3. Dar es Salaam Teachers College
1987	The Use of Electronic Pocket Calculators in Schools	Azania Secondary School

1988	Factors Contributing to Poor Performance in Mathematics at your School	Azania Secondary School
1989	The Use of Geometry in Tanzania	1. Rungwe Secondary School 2. Soni Seminary 3. Arusha Secondary School
1990 – 2001	--	
2002	Poor Performance of Mathematics in Tanzania	1. Julius Kakyana 2. Omar. S. Mnongalingi 3. Amos Nyandwi
2003 – 2015	---	

6.0 TEACHING AIDS EXHIBITIONS

MAT/CHAHITA decided to initiate a component of teaching aids exhibitions among its activities during the AGM/Pi-day/Seminars. Decision to do so followed the fact that teachers are always encouraged to develop teaching aids from locally available materials. In this context, teachers are invited to submit to the AGM/Pi-day/Seminar their teaching aids for display. The exhibitions are organized on a competitive basis, and the best performers are awarded substantial prizes**.** COSTECH, TIE and Pearson Book Publishers have been sponsoring previous exhibitions. In order to promote this exceptionally important initiative in improving teaching and learning of mathematics, MAT/CHAHITA encourages other organizations, institutions and individuals to join hands in sponsoring teaching aids exhibitions.

6.1 2013 Teaching Aids Exhibition

Books exhibitions were presented by two companies, Taasisi ya Uchunguzi wa Kiswahili Tanzania (TUKI) and Pyramid. Teaching aids were displayed by six teachers, namely: Eva Kipimo, Anjelina Raban, Ayub Yohana, Mussa Ngonyani and Joan Joshua. These were teachers from different primary schools.

6.2 2014 Teaching Aids Exhibition

Schools, organizations and individuals that participated in 2014 Teaching Aids Exhibition organized by MAT/CHAHITA during the 2014 Pi-day celebration are Peace Corps Volunteers, Lumo Secondary School, Kisota Secondary School, Loyola High School, Kisangani Teachers College, Minazi Mirefu Primary School, Bunju Secondary School, AIMS Alumni, Aga Khan University - Dar es Salaam Branch, Vikindu Teachers College, Mama Kipimo & Uhuru Girls Primary School, Beniel Seka, **AIMS-NEI** – with SURFER software on teaching and learning mathematics . However, it was decided at later stage to award only teaching aids displayed by students and teachers but not organizations.

Winners for Mathematics Teaching Aids Exhibition were: Vikindu Teachers College, Minazi Mirefu Primary School, and Loyola High School.

6.3 2015 Teaching Aids Exhibition

Schools, organizations and individuals that participated in 2015 Teaching Aids Exhibition were Uhuru Primary School, Mtoni Primary School, Loyola High School, Jangwani Secondary School, Kisota Secondary School, Aga Khan University-Dar Es Salaam, Peace Corps Volunteers, Mr. Watson Levens (with a SURFER Software), Kisangani Teachers' College and Book Publishers. Winners for Mathematics Teaching Aids Exhibition was categorized into three groups as follows: Primary Schools group: The 1st winner was Uhuru Primary School; the 2nd winner was Minazi Mirefu Primary School. Secondary School group: The 1st winner was Loyola High school, the 2nd winner was Jangwani Secondary school and the 3rd winner was Kizota Secondary School. For individual group: The 1st winner was Mr Kimaya, the 2nd winner was Mr Kwarazi and the 3rd winner was Ms. Eva Kipimo

7.0 PUBLICATIONS

Being an association, the MAT publishes academic materials. A closer look into the publications MAT, Indicates a very active Association. We present few publications from 1992. Topics covered in these publications include Geometry, Functions & Relations, Sequences & Series, Probability, Circles & Spheres, Plans & Elevations, Statistics & Kinematics, Mechanics, Geometry, Algebra including vectors, and sets, Arithmetic, Numerical Methods, Operations Research, and Computers.

7.1 MAT Publications since its Establishment

YEAR	PUBLICATION
1966	MAT Bulletin Vol. 1 No 1
1967	MAT Bulletin Vol. 2 No 1, No. 2, No 3, No 4
1968	MAT Bulletin Vol. 3 No 1, No. 2, No 3
1969	MAT Bulletin Vol. 4 No 1, No. 2, No 3
1970	MAT Bulletin Vol. 5 No 1, No. 2, No 3
1971	MAT Bulletin Vol. 6 No 1, No. 2, No 3
1972	MAT Bulletin Vol. 7 No 1, No. 2, No 3, No 4
1973	MAT Bulletin Vol. 8 No 1, No. 2
1974	MAT Bulletin (Special Issue)
1975	MAT Bulletin Vol. 10 No 1, No. 2
1976	MAT Bulletin Vol. 11 No 1
1977	MAT Bulletin Vol. 12 No 1, No. 2, No 3, Index to Vols 1-12
1978	MAT Bulletin Vol. 13 No 1, No. 2, Junior Bulletins (2 Issues)
1979	MAT Bulletin Vol. 14 No 1, No 2; Junior Bulletin Vol. 1 No 2.
1980	MAT Bulletin Vol. 15 No 1, No 2; Junior Bulletin Vol. 1 No 2.
1981	MAT Bulletin Vol. 16 No 1, No 2; Junior Bulletin Vol. 3 No 1.
1982	MAT Bulletin Vol. 17 No 1, No 2
1983	MAT Bulletin Vol. 18 No 1, No 2
1984	-----
1985	-----
1986	MAT Bulletin Vol. 19 No 1
1987	-----
1988	MAT Bulletin Vol. 20 No 1
1989	-----
1990	MAT Bulletin Vol. 20 No 2, Vol. 21 No. 1
1991	MAT Bulletin Vol. 21 No 2

1992	25 Years of MAT 1966 – 1991
1993	Functions & Relations, Sequences & Series
	Circles & Sphere, Plans & Elevations
	Statistics & Kinematics
1995	Basic Applied Mathematics
1996	Grade A Part I
	Grade A Part II
2003	Sequences & Series (Revision booklet)
	Geometry (Revision booklet)
	Binary Operations, Relations & Functions (Revision booklet)
	Exponents, Radicals, Logarithms & Standard Notations (Revision booklet)
	Probability (Revision booklet)
	MAT Bulletin Vol. 23 No. 2
2004	MAT Bulleting Vol. 24 No. 1

8.0 ANNUAL GENERAL MEETINGS

One of the great successes of MAT/CHAHITA is the ability to conduct seminars and General meetings every year, except in 1985 where the MAT did not conduct the general meeting and seminars. The Seminar aims at providing mathematics teachers with a forum to discuss issues related to mathematics teaching and learning in Tanzania. Annual General Meeting (AGM) is conducted during that particular time. During AGM members receive reports on the activities and the financial position of the Association from the various MAT/CHAHITA zones all over the country and the National Committee. Table below shows the number of participants and venues in which AGM/Seminars have been conducted since 1991. Note that the AGM/Seminars have been conducted in different regions of the country which reflects the National nature of the Association.

8.1 AGM/Seminars from 1991 to 2015

DATE	YEAR	REGION	VENUE	MEMBERS
	1966	Dar es Salaam	University College, Dar-es Salaam	
	1967	Dar es Salaam	University College, Dar es Salaam	
	1968	Dar es Salaam	University College, Dar es Salaam	
	1969	Dar es Salaam	University College, Dar es Salaam	
	1970	Dar es Salaam	University College, Dar es Salaam	
	1971	Dar es Salaam	University College, Dar es Salaam	
	1972	Iringa	Mkwawa Secondary School	
	1973	Tabora	Tabora College of National Education	
	1974	Coast Region	Kibaha Education Center	
	1975	Coast Region	Kibaha Education Center	
	1976	Coast Region	Kibaha Education Center	
	1977	Coast Region	Kibaha Education Center	
	1978	Coast Region	Kibaha Education Center	
	1979	Dar es Salaam	Ardhi Institute, Dar es Salaam	

	1980	Morogoro	IDM, Mzumbe Morogoro	
	1981	Moshi	Moshi Cooperative College	
	1982	Iringa	Klerruu College of Education	
	1983	Moshi	Moshi Cooperative College	
	1984	Moshi	Moshi Cooperative College	
	1985	Not Held	Not Held	
	1986	Morogoro	Morogoro College of National Education	
	1987	Dar es Salaam	Ardhi Institute, Dar es Salaam	
	1988	Dar es Salaam	Ardhi Institute, Dar es Salaam	
	1989	Dodoma	CCT Conference Centre, Dodoma	
	1990	Dar es Salaam	Ardhi Institute, Dar es Salaam	
16 - 21Sept.	1991	Iringa	Kleruu Teachers College	74
21 - 26 Sept.	1992	Mbeya	Mbeya Technical College	95
13 - 18 Sept.	1993	Tanga	University of Dar es Salaam	143
12 - 17 Sept.	1994	DSM	Morogoro Social Education Center	99
4 - 9 Sept.	1995	Morogoro	Morogoro Social Education Center	142
16 - 21 Sept.	1996	Iringa	Kleruu Teachers College	77
15 - 20 Sept.	1997	Dodoma	Dodoma Secondary School	90
14 - 20 Sept.	1998	DSM	University of Dar es Salaam	
13 - 19 Sept.	1999	Morogoro	Morogoro Social Education Center	
10 - 16 Sept.	2000	Mbeya	Mbeya Education Center	124
10 - 16 Sept.	2001	Iringa	Dr. Amon Nskela's Bankers Academy Iringa	218

16 - 22 Sept.	2002	Morogoro	Morogoro Social Education Center	240
15 - 21 Sept.	2003	Tanga	Tanzania 4H Organization	255
13 - 18 Sept.	2004	Arusha	Arusha Secondary School	300
12 - 17 Sept.	2005	Morogoro	Morogoro Social Education Center	
	2006	No records		
	2007			
15 - 20 Sept	2008	Morogoro	CCT (Kisanji) Centre	274
21 - 26 Sept	2009	Dar es Salaam	University of Dar es Salaam	240
13 - 18 Sept	2010	Morogoro	Sokoine University of Agriculture	384
12 - 17 Sept	2011	Iringa	Tumaini University College	256
17 - 22 Sept	2012	Arusha	Tumaini University Makumira	246
16 - 21 Sept	2013	Mbeya	Teophilo Kisanji University (TEKU)	330
15 - 21 Sept	2014	Mwanza	Bugando University	416
24 - 29 Aug	2015	Moshi	Mwenge Catholic University	445

From the table above, it shows a great improvement over the years in attendance though not satisfactory if compared to the number of teachers. The AGM and annual seminars are yearly attended by, among others, primary school teachers, secondary (O-level and A-level) school teachers, university lecturers, curriculum developers, international volunteers. The opening and closing of the AGM and seminar weeks are normally done by government officials. For example in 2013, the AGM and seminar was officially opened on 16th September 2013 by the honorable **Dr. Harrison G. Mwakyembe (MP),** the then Ministry of Transport. The seminar was closed the Human Resource Assistant from Regional Administrative Secretary office, Mbeya region, on behalf of Mbeya region RAS.

It is the custom of MAT to have Lecture of the Year which cuts across all level of the participants. The table below shows the MAT Lectures for every year since 1976 when the association initiated this. There are years,

for example 1978, where the lecture of the year was not conducted. The main reasons have been either the appointed lecturer did not turn up or financially the association was not able to have it.

Table: Lecture of the Years

YEAR	TITLE	PRESENTER	POSITION
1976	Doing Mathematics	Prof. D. Cappit	Math Professor - UDSM
1977	The Role of the Tanzanian Mathematics Teachers in Research	Prof. G. Mmari	Math Professor - UDSM
1978	---		
1979	---		
1980	How Census Data is Collected and Analysed and the Problems Encountered	R. Kiyao	
1981	Complex Numbers and Some Applications	Dr. S. A. Mshimba	Math Professor - UDSM
1982	Mathematics as a Medium in Human Endeavour	N. Ole Kmnainei	
1983	The Indigenization of Science and Technology in Tanzania - Problems and Prospectus	Prof. A. S. Mawenya	
1984	Application of Mathematics to Epidemiological Research	Dr. F. D. Mtango	
1985	---		
1986	Puzzles, Problems and Messes: Mathematics and Problems Solving	Prof. D. Cappit	Math Professor - UDSM
1987	Operations Research as a Tool in Analyzing Food Security Problems	Dr. C. Schweigman	
1988	---		
1989	The Mathematics of Population: a case of Tanzania	S. A. M. Ngallaba	

1990	---		
1991	On the International Village for Science and Technology	Prof. L.K. Shayo	Math Professor - UDSM
1992	Nuclear Physics	Dr. M. G. Bilal	Government official
1993	---		
1994	Computers	Mr. Newa	CCTL-Wang Computers
1995-1999	---		
2000	Education Sector Development Programme		Director of Secondary Education
2001	Census and Mathematics	Dr. D. Mbogoro	Director - Tanzania Bureau of Statistics
2002	Mathematics Education in the context of ESDP	Dr. A. Mwaimu	Director of Planning, MoEC
2003	Gender and Education	B. Koda	Professor, UDSM
2004	ESDP	Mr. C. Philemon	Director of Secondary Education
2005	No records		
2006	No records		
2007	No records		
2008	No records		
2009	Food Security Planning in Tanzania	Dr. C. B. Alphonce	Lecturer, UDSM
2010	Development of Science and Mathematics in Tanzania	Mr. Charles Phillemon	The Director of Secondary Education, Ministry of Education and Vocational Training
2011	Adequate mathematics for developing countries	Dr. Christian Baruka Alphonce	Lecturer, UDSM

2012	Contribution of the government of Tanzania to the improvement of secondary school science and mathematics teachers through in-service training programmes	Elia Y. K. Kibga	National Coordinator for Science, Mathematics and ICT Secondary Education
2013	Mathematics in Pneumonia	Ms. E. Joseph	TEKU
2014	Mathematics is Foundation of Science and Technology	Dr. G. Kafuku	COSTECH
2015	Development of science and mathematics	Dorothy Mwaluko	MOEVT

9.0 MAT SPONSORS

MAT is a nonprofit association, where all the activities are sponsored by different stakeholders. Since the establishment of the association, the following sponsors have been involved in one or more times. Likely, due to absence of records, some sponsors are not in the table. We regret on this.

S/N	SPONSORS	
1.	Ministry responsible for education in Tanzania	
2.	Ministry responsible for science and technology in Tanzania	
3.	Tanzania Institute of Education	
4.	Open University of Tanzania	OUT
5.	National Examination Council of Tanzania	NECTA
6.	Tanzania Commission for Science and Technology	COSTECH
7.	Irish Aid	
8.	McMillan Foundation	
9.	University of Dar es Salaam	UDSM
10.	Tanzania Breweries Limited	TBL
11.	Tanzania Habours Authority	THA
12.	National Social Security Fund (former National Provident Fund)	NSSF (NPF)
13.	Norwegian Agency for Development Cooperation	NORAD
14.	Higher Education for Development Cooperation	HEDCO
15.	European Union	EU
16.	Plan International	
17.	Parastatal Pension Fund	PPF
18.	National Bank of Commerce	NBC
19.	Tanzania Telecommunications Company Limited	TTCL
20.	Ardhi University (former UCLAS)	AU (former UCLAS)
21.	Business Machines Tanzania Limited	BMTL
22.	National Insurance Corporation (T) Limited	NIC
23.	Bank of Tanzania	BoT
24.	Sokoine University of Agriculture	SUA

25.	Danish International Development Agency	DANIDA
26.	Inter Consult	NPF
27.	National Board of Accountants and Auditors	NBAA
28.	Tanzania Public Service College	TPSC
29.	Chama cha Walimu Tanzania (former OTTU + Chama Cha Kitaalaam cha Walimu Tanzania)	CWT (former OTTU + CHAKIWATA)
30.	Tanzania Communications Regulatory Authority	TCRA
31.	Tumaini University, Dar es Salaam Campus	TUDARCo
32.	FGD Publisher	
33.	African Institute for Mathematical Science	AIMS
34.	Longman Publisher	
35.	Department of Mathematics, UDSM	
36.	APE Network	APE
37.	Pearson	
38.	Kilimanjaro village	
39.	Peace Corps	
40.	Institute of Curriculum Development	
41.	Trustees of Private Schools	
42.	Germany Volunteer Service	
43.	TKAI	
44.	Tanzania Bureau of Standards	TBS
45.	Tanzania Petroleum Development Corporation	TPDC
46.	United Nations Educational, Scientific and Cultural Organization	UNESCO
47.	British Council	
48.	Juthalal Velji Ltd	
49.	CCT Ltd	
50.	TPH	
51.	IPP	
52.	Harold MacMillan Trust	

10.0 CHALLENGES

Since its establishment, the MAT has archived its objectives. However, the challenges have been there since then.

(i) **Publications:** Production of MAT Books for schools and MAT Bulletins. MAT has been producing books since 1966 but in the last few years, there have been no publishing.

(ii) **Review of the MAT/CHAHITA Constitution**: The era we are forces the MAT to review the constitution. This has been the agenda for couple of meetings, without fulfilling it.

(iii) **MAT financial dependence on other organizations:** The association has been dependent to its sponsors. There are some events that have not happened because of insufficient fund. For example, traditionally when celebrating Pi-day, we normally start with pre-Pi-day. This year 2016, there was no such event because of lack of fund.

(iv) **Funds for the Association and its accountability:** Even though the association depends heavily on sponsorship, the fund received has not been accounted. For example, the auditing has never been done for couple of years which implies the constitution is not followed because the MAT constitution states that the association's finances must be audited yearly and the report discussed.

(v) **Research Competitions:** MAT organized Research competitions for mathematics teachers and students. Being its objective, the association has not organized the research competitions for many years. The main reason is the poor response of teachers and students.

(vi) **National MAT Seminar/AGM and Pi Day celebrations**: The association has never published (worldwide) the two events.

(vii) **MoU between MAT and other organizations:** The association has no any MoU which, sometimes, lead to failure to continue collaborating.

(viii) **MAT Website and office:** The association has dormant website, and has no office.

(ix) **Marketing and popularizing MAT:** The association is not known for many Mathematics teachers in the country, and outside the country.

(x) **Attendance:** Attendance of mathematics teachers in national seminars is very poor.

(xi) **Awards to winners:** Awards for winners because of poor financial position of the association. This discourages participants for both contest and research.

11.0 FUTURE OF MAT

(i) **Publications:** The association is expecting to produce at least one academic book yearly. Among these books to be produced, we expect to write a book which deals with teaching and learning materials for each topic especially for Primary and Secondary schools.

(ii) **MAT International Conference (MAT-IC):** where the main theme is expected to be Challenges of Teaching Mathematics. The MAT-IC will bring together local and international stake holders for Mathematics. Expected time is September, 2018.

(iii) **Mathematics text books:** MAT is known to have many experts. Through its experts, the association is expecting to write primary and secondary books that will be very competitive to the market.

(iv) **Establishment of strong MAT Zones:** Zones to have headquarters at the Mathematics department of a regional University. In Tanzania, there are now many universities if compared to the number of universities we had before 2000. The propose patron for MAT zone will be the head of the department of Mathematics of the university present in the region.

(v) **Popularity and marketing the association:** Budget from the government. Like previous years whereby TIE had association fund.

12.0 CONCLUSION

MAT has been successful in fulfilling its objectives through great commitment by members. It is one of the longest surviving subject Associations in the country with continuously active members evidenced by activities presented in this bulletin over the years.

Many teachers have been trained and continue to be trained on various topics previously considered to be difficult, and equipped with many delivery techniques mostly from experts but also by sharing from each other. This is one of major reasons that AGM/Seminars have been very successful and have been conducted annually without failure since 1966.

Despite of all MAT efforts, mathematics subjects is still faced with many problems. Many mathematics teachers in Tanzania are confronted with very large classes, and very heavy load in terms of number of hours they have to teach. There is still the problem of some teachers not having either the requisite content or proper methodology of teaching some topics. Some teachers do not use teaching aids, while some do not have the correct text books or reference books their disposal. MAT has worked very hard in publishing books and providing seminars which plays a crucial role in correcting these weaknesses. However, the Association can only live up to the resources at its disposal. Given more resources and support from the Government and various Agencies, MAT can make a big and quick impact in improving teaching and learning of Mathematics in Tanzania.

Future success of MAT will depend on continued support and cooperation from Ministry of Science and Higher Education, the Tanzania Institute of Education, the Examinations Council, authorities in schools and colleges, teachers and tutors in these schools and colleges, and mathematics educations in all institutions.

Appendix presents Tables with very useful information on MAT activities from 1991 to 2004. Among others, they show specific details about contest winners, lectures of the year and papers presented in AGM/Seminars, representatives Institution in MAT, office bearers and committee members.

Finally, the future success of the MAT will depend on the extent to which the association places at the centre of its activities the interests of the mathematics learner of today's and next generations.

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