



**Ethiopian Academy of Sciences  
Annual Report**

**2016/17**



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Ethiopian  
Academy  
of Sciences

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# INTRODUCTION

The Ethiopian Academy of Sciences (EAS) presents its 2016/17 Annual Report, focusing on the five core programs. The mission of EAS is to foster scientific knowledge and culture in the country and provide evidence-based policy advice to the Government and other stakeholders.

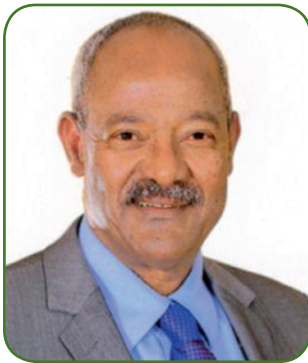
During the 2016–2017 period, a 17,000,000.00 Birr budget has been approved for the implementation of the activities planned under the five core programs of the Academy. Out of this, 10,000,000.00 Birr is Government support, its annual budget subvention to the Academy. The budget also includes 4,000,000.00 Birr carryover of the previous year budget allocated for capital expenditures and 3,000,000.00 Birr planned to be mobilized from other sources. Birr 37,200.00 was expected to come from annual membership fees.

EAS began execution of its 2016/17 Plan, prepared based on its second (2016–2020) strategic plan, taking into consideration its organizational capacity and the country's development trajectory.

Securing full ownership and completing conveyance of the main building of EAS Headquarters, that it had guardianship of, with the Government Housing Agency over the course of the first half of the budget year was one of the encouraging results. Request for ownership registration certificate and plan has been submitted to the appropriate sub-city office to ensure proprietorship of the holding, and follow up is underway. The completion of the process will enable the Academy to utilize the property to its fullest potential. The Academy would like to take this opportunity to convey its gratitude to the Government for the continued support it has thus far provided it.

The main planned activities for the 2016/2017 Ethiopian Fiscal Year (EFY) are summarized in Part II below and Part III describes their implementation.

# Message from the President and the Executive Director



Prof. Tsige Gebre-Mariam  
President



Prof. Masresha Feten  
Executive Director

Dear EAS Fellows and Partners,

It is with great pride and sense of accomplishment that we present you the Annual Performance and Financial Report of the Ethiopian Academy of Sciences (EAS) for the 2009 fiscal year (2016/17). This report outlines some of the core strategic achievements and progresses made in selected areas over the past year, and the support we obtained from Fellows, government and our partners. As you read the report, we hope that you will gain insight into the breadth and depth of our activities and achievements.

Over the past year, our Academy has been engaged in implementing the five key programs: enhancing internal competence and sustainability; providing evidence-based policy advice to policymakers; promoting science, technology and innovation; featuring pertinent issues in the public lecture series; and expanding national, regional and global collaborations and partnerships.



In the past fiscal year, in terms of increasing the fellowship of the Academy, we inducted 14 new Fellows and 8 Associate Fellows after their achievements and contributions were carefully scrutinized by our Working Groups. We also hired new staff to fill key vacant positions. The Academy's library facility has also been boosted with important collections. Furthermore, it is a great honor to recount to you that, in the 2016/17 fiscal year, we established the Ethiopian Academy Press as a publishing wing of the Academy. It is fitting that the first book published by the Ethiopian Academy Press is a book on the travel accounts of Blaten Geta Hiruy Woldeselassie.

The Academy had also made discernible progress in providing evidence-based advice to policymakers and partners. Some of the completed consensus studies and reports include finalizing the Ethiopian Journal Evaluation and Accreditation System; completion of the National Biotechnology Research and Development Roadmap Implementation Plan and completion of a Roadmap for Sugar by-products Development.

In relation to fostering scientific culture, innovation and raising awareness through our public lecture platform, we believe EAS had picked-up quite a few issues of national significance. Some of the topics include Trans-boundary rivers and Energy; the Development of Cities, their Predicaments and Future Direction in Ethiopia; Biodiversity and Sustainable Development; and the Ethiopian Genetic Structure and History.

Another engagement of the Academy worth mentioning is the activities of the Creative Arts Center. Throughout the year, the Center conducted regular bi-monthly programs attracting large audiences and creating spaces where fine arts thrive.

In the past year, the Academy has made partnerships and collaborations with several institutions and the Government. Members of the Board also convened a discussion with the Ethiopian Prime Minister, H.E Ato Hailemariam Dessalegn and his cabinet to discuss the Academy's mandate, activities and strengthen its institutional sustainability, in which the government's support was reaffirmed.

We hope you will agree with us that 2016/17 was a year of considerable achievements for the Academy! We would like to thank the Ethiopian government for the budget support, our partners for fruitful collaboration and Fellows of the Academy for the engagement.

Good reading.

# 1 MAIN PLANNED ◆ ACTIVITIES

The 2016–2017 plan of the Academy is focused on activities to be carried out to implement the five core programs specified in the second Strategic Plan of the Academy. Below are the activities stipulated under the five core programs.

## 1.1 Build institutional capacity of EAS and ensure sustainability

1. Election of new Fellows with particular regard to gender and discipline balance
2. Updating Fellows and Working Groups of the Academy and other stakeholders about the activities of the Academy via newsletter, website and email
3. Convene the Annual Meeting of the General Assembly; quarterly Board meetings and monthly meetings of the Executive Committee as per schedule
4. Fill key positions in the Secretariat with the necessary staff
5. Provide staff with relevant skills training (on communication, project/program proposal development, information technology, project management, follow up and evaluation, financial resource development, public relations etc.)
6. Establish a library and information center of the Academy
7. Carry out a study and design an implementation strategy for the establishment of a firm that manufactures various science education teaching aid equipment and supplies/materials and provides related services

8. Set up the Academy's Press and develop its publication and communication capacity
9. Support and strengthen the Ethiopian Young Academy of Sciences
10. Enable the Working Groups of the Academy to plan and execute their activities as per the bylaws adopted by the Board to guide and coordinate the same
11. Generate project ideas and consult with sponsors to attract funding for undertaking various consensus studies and developing EAS Headquarters.

## 1.2 Provide evidence-based policy advice

1. Enable the Ethiopian Panel on Climate Change (EPCC), established under EAS, to carry on its work
2. Conduct consensus studies on issues identified by EAS Working Groups
3. Convene consultations with the Ministries of Science and Technology, Education, Health, Agriculture, Natural Resources and Environment, Forestry and Climate Change to identify topics for consensus studies that would help propose evidence-based policy recommendations
4. Prepare basic documents that support research management and Science Communication initiatives and provide training for relevant research and education institutions
5. Recommend study ideas to implement the national biotechnology road-map
6. Support the Government's efforts to prioritize research programs at the national level and evaluate and support research projects/ programs
7. Complete the agriculture, health and science and technology human resources demand and supply national study and forward policy recommendations to the Government

### 1.3 Organize consensus-building platforms on issues of national importance

1. Organize series of public lectures and discussion platforms in Addis Ababa on various contemporary topics
2. Work with universities outside Addis Ababa to conduct public lecture and discussion series
3. Organize workshops and consultation platforms on current issues and results of the Academy's studies.

### 1.4 Promote science, technology and innovation

1. Provide the EAS Science Center, set up at the Headquarters of the Academy, with the necessary staff, infrastructure, materials, and system so that it begins providing services, and prepare and adopt the Center's medium and long-term structure and plan
2. Provide the human power and infrastructure for the short-term of the Creative Arts Center, established at the Academy's Headquarters, so that it provides services; and prepare and adopt the Center's medium and long-term structure and plan
3. Start the Academy's newsletter using a convenient language to disseminate the Academy's useful and relevant research findings among the general public
4. Recognize outstanding contributions in the fields of science, technology and innovation

### 1.5 Build continental and international collaborations

1. Pay working visits to government offices, non-governmental organizations and continental and international organizations to boost awareness about the Academy and strengthen relationships
2. Identify national institutions and build relationships, invite their leaders to visit the Academy so that they can benefit from its resources and services, forge collaborations on issues of common importance, and sign agreements
3. Take initiatives to establish and build up relationships with sister academies in Africa, Europe, North America, and Asia

## 2. IMPLEMENTATION

### 2.1 Build institutional capacity of EAS and ensure sustainability

#### 2.1.1 Recruit new Fellows of the Academy focusing on gender and discipline representation

Among the 16 Fellows and 10 Associate Fellows elected for membership the previous year, the General Assembly officially inducted 16 Fellows and 9 Associate Fellows who accepted their election at its 5<sup>th</sup> Regular Meeting held on 12 November,

2016. In addition, 14 Fellows and 8 Associate Fellows, nominated from the fields of Agriculture, Health, and Natural Science and Social Sciences, were elected. The Table below indicates elected members by gender and discipline.

Table 1 Fellows of the Academy elected in 2016 by discipline and gender

No	Sector	Fellows			Associate Fellows			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Agriculture	5	-	5	3	-	3	8	-	8
2	Health	4	1	5	3	-	3	7	1	8
3	Natural Science	2	-	2	-	1	1	2	1	3
4	Social Science	1	1	2	-	1	1	1	2	3
Total		12	2	14	6	2	8	18	4	22

The General Assembly agreed that members make strong efforts to gather information on prospective nominees (in each discipline) who would have met the Academy's eligibility requirements but may not have been nominated.

Based on this, Working Groups of the Academy identified nominees and gathered information about them. Table 2 summarized current membership of the Academy, and in parenthesis are previous year's membership figures.

Table 2 Summary of total membership of the Academy

Members	Male		Female		General
	Total	%	Total	%	
Fellows	122 (110)	91 (91)	12 (11)	91 (9)	134 (121)
Associate Fellows	43 (38)	89.6 (92.7)	5 (3)	10.4 (7.3)	48 (41)
Honorary	1 (1)	100	-	0.0	1 (1)
Total	166 (148)		17 (14)		183 (162)
% From Total Membership	90.7 (91.3)		9.3 (8.6)		100 (100)

### 2.1.2 Communicate with Fellows of the Academy, Working Groups and Stakeholders about the activities of the Academy and other relevant issues through newsletter, website and email

The quarterly EAS Update has been sent out via email in September and October to keep Fellows and Associate Fellows abreast of EAS activities. The third Issue has not been posted due to lack of a communication officer and heavy staff workload. The June 2017 Issue will cover the second half of 2017 budget year. Moreover, the 2016 Annual Report and Auditor's Report have been published and distributed among members and stakeholders.

The Academy's website is up and running, providing information about the Academy and announcing events of the Academy. Efforts have also been made to further develop the website and keep content complete and up-to-date.



EAS website, news, list of other information and quarter year news magazine

### 2.1.3 Convene the Annual General Meeting, quarterly Board meetings and monthly meetings of the Executive Committee as scheduled

The Board held its 13<sup>th</sup>, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> meetings in September, December, March, and June, respectively and dealt with several issues. The Executive Committee also met as per schedule and followed up with the execution of the Board's decisions and provided support to the Secretariat. The General Assembly successfully held its 5<sup>th</sup> Regular Meeting on 12 November, 2016 at the Headquarters of the Academy. It deliberated and passed decision on the following main issues:

1. Induction of the 2016 nominees
2. Presentation of the 2016 Annual Report and Auditor's Report
3. The 2017 Action and Budget Plans
4. Election of new Fellows and Associate Fellows
5. Appointment of the 2016-2017 Budget Year auditor
6. Election of new Executive Committee and Board members

After reviewing the 2015-2016 Annual Report, the General Assembly evaluated implementation of the Academy's 2016/2017 plan satisfactory and the 39% excess encouraging.

The Auditor's Report, presented to the General Assembly by Wudu Techane P.L.C, the External Auditor of the Academy, the financial statements of

the Academy were congruent with the Academy's operational guidelines and activities. Wudu Techane's two-year term was terminated and the Academy carried out a new auditor selection process. Through a limited bid, Abebe Kifle and Co., a certified and authorized audit firm, has been appointed as the External Auditor of the Academy for the 2016/2017 and 2017-2018 Fiscal Years by the General Assembly based on its work experience and relatively low audit fees.

After reviewing the 2016-2017 mid-year and the nine-month implementation reports, the Board deemed them more than satisfactory. The reports have been sent to the Ministry of Science and Technology and the House of People's Representatives' Science, Communication and Technology Standing Committee, which looked over the strengths and weaknesses of the Academy in implementing the plan and forwarded constructive feedback.

The 5<sup>th</sup> Regular Meeting of the General Assembly conducted election to replace outgoing Officers and Board Members. The following four Executive Committee and four Board candidates, who were eligible and who had accepted the nominations, were elected after a rigorous assessment process by the Nomination and Election Committee:

1. Professor Tsige Gebre-Mariam	President	Officer
2. W/ro Zenebework Tadesse	Principal Vice-President	Officer
3. Professor Sileshi Lulseged	Vice-President	Officer
4. Professor Abebe Getahun	Treasurer	Officer
5. Dr. Solomon Bekure	Member	
6. Professor Abebe Dinku	Member	
7. Professor Daniel Kitaw	Member	
8. Professor Shibru Tedla	Member	

\*The Board has twelve members, including Dr. Kassu Ilala and Dr. Ameha Kebede, who are appointed by the Government to represent research institutes; and Dr. Shumete Gizaw, representing the Ministry of Science and Technology and Professor Masresha Fetene, Executive Director of the Academy.

Professor Gobena Ameni, inducted in 2016 as Fellow of the Academy, made a presentation at the conclusion of the 5<sup>th</sup> Regular Meeting of the General Assembly on Vaccination as the best strategy in combating infectious diseases: success, challenges and prospects. The presentation was followed by a discussion.



5<sup>th</sup> Regular EAS Meeting of the General Assembly



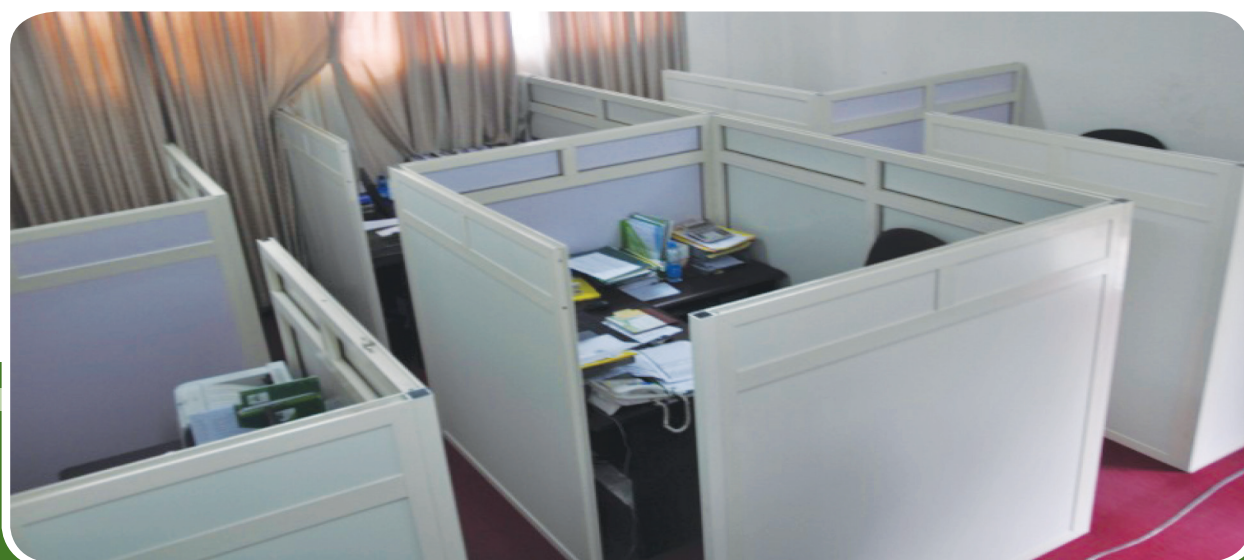
## 2.1.4 Staffing key positions of the Secretariat with the essential human power and providing employees with skills training

Based on the organizational structure and salary scales adopted in the 2016–2017 budget year, the 2017–2018 priorities of the Academy were to fill vacancies with the required staff. Steps have been taken to recruit employees with the relevant education and work experience to fill the newly created

positions and existing vacancies. Office spaces have also been created for the new job openings. In general, the Secretariat has 52 approved positions and had set a target to fill 33 positions in the 2016–2017 period. The staffing plan and number of staff are shown in Table 3 below.

Table 3 Implementation Plan of the Secretariat

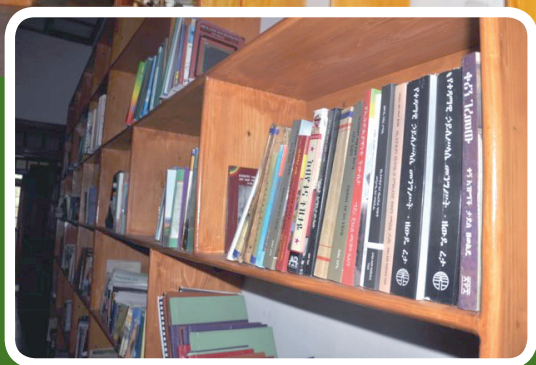
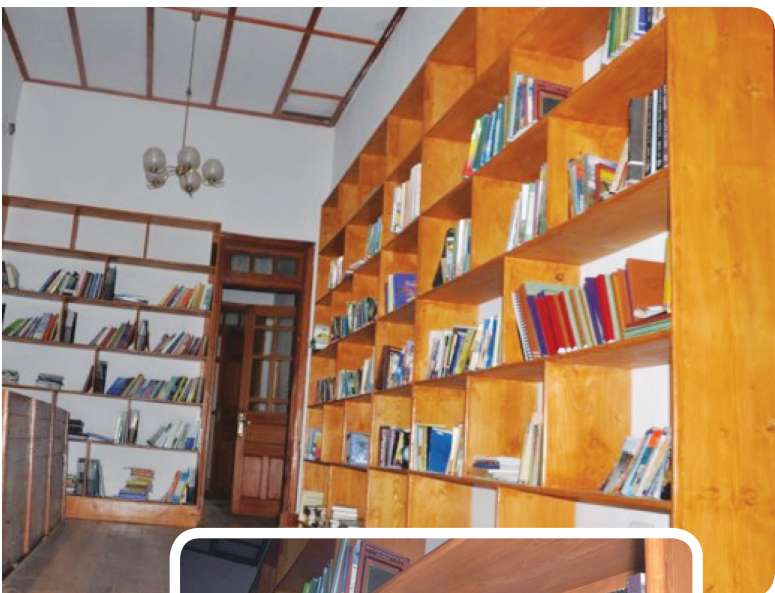
No	Department	Approved positions	Plan for 2016/2017	Number of Staff as at 07 July 2017			Implementation %
				Male	Female	Total	
1	Office of the Executive Director	8	3	1	1	2	75
2	Science Center	5	1	-	-	-	0
3	Creative Arts Center	2	1	1	-	1	100
4	Program Coordination	4	3	1	1	2	75
5	Communication and Publication	5	4	2	-	2	50
6	Academic Press	6	1	1	-	1	100
7	Administration and Finance	22	20	14	5	19	95
Total		52	33	20	7	27	82



The Academy's Office setup

### 2.1.5 Establish the Academy's library and information center

Some work has been done to equip the Academy's library located in the historical main building. Efforts are underway to collect books that promote the country's language, culture, history, and literature.



The Academy's Library and Information Center

### 2.1.6 Undertake a study to establish a firm that manufactures science teaching aids and provides related services, and design an implementation strategy and program

This initiative is based on the Proclamation establishing EAS number 783/2005 E.C, Article 23 No. 2 that states "In order to create a sustainable financial source, the Academy can establish a revenue generating foundation." Although efforts to set up such a foundation have not progressed as desired, the Academy has been looking for organizations or professionals who could assess the benefits of setting up such a firm and prepare its establishment plan until the end of the budget year.

### 2.1.7 Establish the Academy's Press and build its publication and communication capacity

The Academy publishes reports, policy briefs, books etc. based on the study it undertakes and the discussion forums it organizes, and disseminates them among the public. The Academy also has plans to publish the various research papers prepared by professionals and disseminate them among the general public, focusing on quality to enhance circulation.

Over the years, the Academy has been working on establishing an Academic Press. A document that describes the organization and operations of the Press has been prepared to that effect. The Press has been officially inaugurated on 27 March, 2017 along with the Travel Accounts of Blaten Geta Hiruy on the



The Academy's press publications

occasion of the observance of the 7<sup>th</sup> year of founding of the Academy. The establishment of the Press is believed to fill the gap created by the absence of enough professional publishing houses in the country.

### 2.1.8 Support and strengthen the Ethiopian Young Academy of Sciences

The Academy has been supporting the Ethiopian Young Academy of Sciences to strengthen its organizational structure and build relationships with like-minded organizations. Agreement has been reached between EAS and the Ethiopian Young Academy of Sciences to set up a Pan African Information Center at the Academy's Headquarters in collaboration with the Youth Alliance

for Leadership and Development in Africa- Addis Ababa University Chapter- and the African Union. There also is an agreement to hold a stakeholder meeting at the Headquarters of the Academy. Support has been provided to hold a discussion on the issue with stakeholders in the premises of the Headquarters of the Academy.

### 2.1.9 Coordinate and support planning and implementation of activities of the Working Groups of the Academy based on the recently adopted bylaws

The General Assembly approved the bylaws in accordance with the Board's initiative to streamline activities of the Working Groups. It has also been decided that a Fine Arts Working

Group be established in addition to the five Working Groups of the Academy (Agriculture, Engineering and Technology, Health, Natural Science, and Social Science and Humanities). The establishment of the Fine Arts Working Group is believed to be of great assistance to the realization of the mission of the Creative Arts Center of the Academy that just started working. The already existing Working Groups have been re-organized according to the Bylaws and have begun working by electing their executives. Public Relations, Resource Mobilization and Science Center Standing Committees have also been set up by the Board to promote the Academy more and ensure its sustainability.

## 2.2 Provide evidence-based advice

### 2.2.1 Enable the Ethiopian Panel on Climate Change (EPCC) to carry on its activities

The first climate change assessments of the country, published in nine volumes last year, have been distributed among stakeholders. There also has been effort to cultivate relationships with various supporters and sponsors to garner funding opportunities and empower the Panel to carry on its activities.

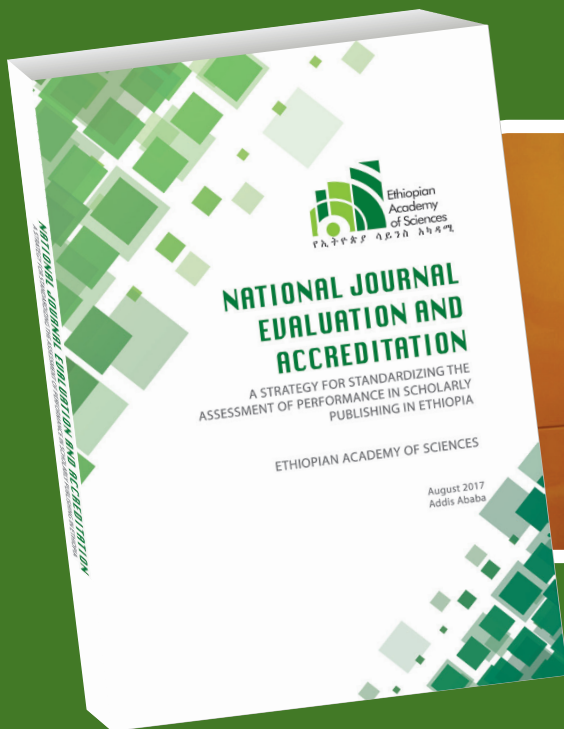
### 2.2.2 Identify potential topics and undertake consensus studies

The Academy conducts consensus studies on national priority issues to provide evidence-based policy recommendations. Generally, issues for consensus studies have either been identified by the Working Groups of the Academy or forwarded from Government offices or organizations and endorsed by the Academy. The Academy organized workshops on the study results that were instrumental in providing policy recommendations to the Government. The following were the major consensus studies conducted in the 2009 EFY.

2.2.2.1 Implementation Plan of the biotechnology road-map and a road-map on the possibility of producing various products from Sugar Industry by-products have been prepared. Stakeholder workshops have also been organized on the results of the Studies to gather inputs from the relevant stakeholders. Final report of the skilled labor demand and supply Study, on agricultural and health sectors, has been submitted to the Ministry of Science and Technology and it has been published.

2.2.2.2 The Study, undertaken to assess the status of scientific publications in the country and develop criteria to evaluate their standard and establish a recognition system, has been completed. Out of the sample publications, it was found out that about 74 research publications are published by universities, research institutes and professional associations. However, quality, timeliness and ownership came out as the major problems in publishing scientific journals in the Study.

There were also response problems in questionnaires that the Study Team disseminated. However, the Study has been completed after field visits and efforts made to use alternative means of obtaining missing information, the draft report has been further developed at a stakeholder workshop held on 17 June, 2017. The project has been carried out through a grant from the Swedish International Development Cooperation Agency.



Workshop on the project report and the study document of the criteria development for scientific publications, evaluation and recognition system

2.2.2.3 The Research Mentorship Study, a project designed to build capacity of research professionals at Addis Ababa, Hawassa and Bahir Dar Universities, is underway with the financial support of the Academy to the proposal submitted by the Social Sciences and Humanities Working Group of the Academy. The Study is being undertaken by senior professionals selected from the Education Research Institute of the Addis Ababa University, the Working Group taking the lead. Data gathering has been completed and analysis has begun. It is believed that the Study will serve as input for the universities throughout the country to nurture research culture and build their research capacities.

2.2.2.4 The David and Lucile Packard Foundation had called upon the Academy to work together on population and development, and the issues have been discussed with stakeholders. Discussion also took place on what Ethiopia should do at the national level to put into practice the 2017

African Union's harnessing the demographic dividend through investments in youth agenda. Based on the consensus reached at the discussion, four high level individuals, who had experience in the field, gathered information in cooperation with the Academy and prepared a document that reflected Ethiopia's position on the issue. Discussion was held with stakeholders and project documents are being prepared. Financial support has been provided by the Foundation for the work.

It is believed that the draft has been a valuable input to the Ethiopian delegation to the African Heads of State summit held in January 2017. There has been a discussion and consensus has been reached on steps to be taken to help the growing youth population in the country to be economically productive. Project documents are also being prepared.

magazine publications and  
availability of open access  
Workshop on harnessing the



demographic dividend through  
investments in youth



### 2.2.3 Develop manuals for research management and science communication training and train professionals from relevant research and higher education institutions

Based on the cooperation started the previous year with the Ministry of Science and Technology, the manual that for the research capacity-building project, has been completed. And fifty researchers and assistant researchers who have won the 3<sup>rd</sup> round research funding of the Ministry were provided training focusing on research planning, proposal preparation and implementation, monitoring and evaluation, data gathering, and analysis.





Training on research planning, proposal preparation and implementation, monitoring and evaluation, data gathering, and analysis

#### 2.2.4 Develop research ideas that would support the implementation of the country's biotechnology roadmap

As per the schedule indicated in the Implementation Plan for the budget year, the Study, carried out under five parts and had begun the previous year, has been completed and the report has been submitted. The preliminary results of the Study have been discussed at a stakeholder workshop held on September 1, 2016 under the topic National Biotechnology Research and Development Plan. Presentations were made on National Biotechnology Curriculum Review and

Development, Biotechnology Research and Training Infrastructure Plan, Biotechnology Regulatory Framework Guidelines, Biotechnology Investment and Marketing Study and Biotechnology Awareness Creation and Acquisition of Concepts. Draft final reports have been presented by professionals and the final report, based on feedback from professionals, were compiled in six volumes and submitted to the Ministry of Science Technology.

Study documents on the biotechnology roadmap implementation mechanisms



## 2.3 Organize consensus-building platforms on critical national issues

### 2.3.1 Organize Public Lecture and discussion platforms in Addis Ababa on selected topics and work with universities outside Addis Ababa to organize similar platforms

The Academy organizes monthly public lecture series on various research and scientific topics to enhance public awareness of science. In addition to the lectures provided in Addis Ababa, steps have been taken to collaborate with universities in the regions to hold similar lectures. Lecture topics are selected by EAS Secretariat and Working Groups and the lectures are delivered by EAS member or non-member experts. Preparations have been made to compile the key points of the lectures and discussions in a monograph for dissemination.

Since September of the budget year and in line with the Implementation Plan, eight public lectures have been delivered at the Addis Ababa Institute of Technology auditorium on the following topics:

1. Distinctive features of hydropower electric power construction on transboundary rivers
2. Substituting agricultural imports with domestic agricultural

products: why couldn't we meet local food consumption needs?

3. Drug development: yesterday, today and tomorrow
4. Biodiversity and sustainable development in Ethiopia: Reconcilable or irreconcilable phenomena?
5. The genetic structure and history of Ethiopia
6. Stem cell technology and its benefits for the health sector
7. Development of cities: challenges and their future directions in Ethiopia
8. What is quality? How is it translated into practice?

On average, about two hundred participants, including fellows of the Academy, students and others, were in attendance of each lecture series and actively participated in the discussions. In accordance with the effort to take the lectures and discussions outside

Addis Ababa, the first lecture and discussion took place on Mental Health in Ethiopia on 10 March, 2017 at Bahir Dar in collaboration with Bahir Dar City Council and Bahir Dar University. The second lecture was also held at the University under the topic Chronic and non-Communicable diseases in Ethiopia. In cooperation with Hawassa University, a lecture and discussion forum was organized on Ocean formation in Ethiopia at Hawassa University. A large number of students attended the lecture and participated in the discussion.

### 2.3.2 Organize workshops and consultative forums on current issues and the Academy's study results

Two workshops have been organized to discuss the preliminary results of the study on the national biotechnology roadmap implementation plan and the trained human power demand and supply Study for the agricultural and health sectors on 12 August 2016 and 01 September 2016 at the Ghion Hotel, respectively. Another stakeholder discussion was also held on 18 June 2017 on the draft report of the Study on the establishment of Research Journals Evaluation and excellence recognition system in Ethiopia. Professionals and institutional representatives participated in the three workshops and gave useful inputs. Therefore, reports of the biotechnology and trained human resources study documents have been enriched by input gathered at the workshops and have been finalized. The work of enriching the research journals review establishment of an excellence recognition system is still in progress with feedback from the workshop.



Monthly public lecture series within and outside of Addis Ababa

## 2.4 Promote science, technology and innovation

### 2.4.1 Design and approve the short-and long-term structure and strategy of the Science and Creative Arts Centers and enable them to provide services

EAS has established a Science Center, a Creative Arts Center and an Academic Press to promote science, technology and innovation among the wider society. The Science Center is designed to foster scientific and general knowledge and the culture of science and creativity, especially among children and youth. When the construction of the Center is finalized, it will have various components such as traditional medicine plants, ecology, agriculture, health science, hydroelectric power sources, communication, chemistry/physics, and industry displays.

The Creative Arts Center is designed to promote and develop the Arts, assist artists in all fields of the Fine Arts and provide them with space for creativity and for appreciation of new ways of thinking about the arts and presentation of artwork. The purpose of opening the Center is also to support the Ethiopian community of Fine Arts to participate in research in the arts. The Creative Arts Center has been named after Blaten Geta Hiruy Woldeselassie, former owner of the premises of the Headquarters of the Academy.

The Academy launched the Creative Arts Center on 27 March 2017 and opened a small museum to commemorate the life of Blaten Geta Hiruy Woldeselassie. The museum contains more than twenty of his books, his eating utensils, parchment books, and handcrafts, made by his children while in exile in Italy and in Somalia. Besides, a photographic exhibition was officially inaugurated that commemorated the life and times of Blaten Geta Hiruy, who had tirelessly worked and had made immense contributions to literature in Ethiopia.

High government officials, students, teachers, artists, the media, and members of the Academy attended the exhibition. People of all walks of life still visit the museum. The Center established a Book Club named after Blaten Geta Hiruy which holds monthly book reviews. The Center also fosters the love of reading in children. An art exhibition is also in the works to be opened soon.



The Academy's Science Center

One of the main aims of the Academy is the dissemination of knowledge among the general public. A well-organized and balanced Press with quality and competence is needed for the purpose. The Academy has established an Academic Press to achieve this end. The goal of the Academic Press is to publish books that educate the public, promote knowledge transfer, enhance literature, and nurture the culture of reading.

The Science Center, the Creative Arts Center and the Academic Press have officially been launched on the occasion of the celebration of the seventh year founding of the Academy. High government officials, invited guests and members of the Academy attended the event. There is an effort to equip the Science Center with science equipment, natural samples, and information on science through video, arts, and models to enhance knowledge about science. A cement factory model has been set up in the Center in cooperation with Muger Cement Factory. Agreement has been made between the Academy and the Ethiopian Electric Agency to secure a model of the Ethiopian Renaissance Dam.



The Academy's creative arts center launching ceremony on 27 March 2017; which is named after Blaten Geta Hiruy Woldeselassie



2.4.2 Start the Academy's newsletter that communicates useful and current research results in a language that is understandable to the general public.

There has been discussion to start publication of a newsletter to spread knowledge among the general public. Preparation of establishment documents is underway and it has been decided to produce high standard and high quality annual publication of the Academy.

2.4.3 Recognize outstanding contributions in science, technology and innovation

Discussion took place on the recognition of outstanding contributions in the fields of science, technology and innovation. There is a plan to recognize carefully chosen PhD theses, research results and innovations and bestow award for life time outstanding contributions. The planning document will be discussed at all levels of the Academy.



## 2.5 Enhance national, regional and international collaborations

### 2.5.1 Pay working visits to promote the Academy and strengthen working relationships

In pursuit of enhancing the working relations that the Academy has established with the Ministry of Science and Technology, and to throw more light on the nature of the relationship, the Academy's Board members convened a meeting with high officials of the Ministry. There has also been a discussion with the Ministries of Health and Education to work together on similar interests. Likewise, discussion took place with the Ethiopian Electric Agency to collaborate on issues related to the Science Center and other matters of common interest.





Discussion with the Ethiopian Prime Minister H.E Ato Hailamariam Dessalegn and his Cabinet

### 2.5.2 Strengthening partnership and cooperation to enhance EAS's competence

To enhance the collaborations with the Federal Democratic Republic of Ethiopia (FDRE) government offices and the Ministry of Science and Technology in particular, EAS Board Members convened with the FDRE Prime Minister H.E. Hailemariam Desalegn and his cabinet. The discussion was made to strengthen the partnership between the Academy and government ministries. Further, the Board members highlighted the prospects to work together on common objectives with the government.

### 2.5.3 Invite leaders of institutions and establish relationships to visit the Academy so that they can benefit from its products and services and forge collaborations on issues of common importance and sign agreements

UNESCO officials paid a working visit to the Academy on 22 September 2016. UNESCO has been supporting the Academy since its establishment and there has been agreement to work with the Academy especially on science, culture and education, and the environment.

### 2.5.4 Establish and strengthen relations with sister academies around the world

Process has begun to become associate member of the International Union of Academies and collaborate on common agenda. EAS supported the Union to hold its annual meeting in Addis Ababa, focusing on Sources of African history.

### 2.5.5 Start working with the Network of African Science Academies, African Science Academy and the International Network of Academies on continental and international issues

The Academy, being member of the Network of African Science Academies, participated at the 12<sup>th</sup> annual meeting of the Network. The strategic planning, consisting of the programs of the next five years to be undertaken by the Network and its members, has been approved. Discussion also took place with the International Network of Academies and the African Science Academy on the possibilities of working together on solutions to African challenges in the fields of engineering and health.

EAS hosted the meeting of the project committee of the Inter Academy Partnership (IAP) in Addis Ababa on 27<sup>th</sup> and 28<sup>th</sup> February, 2016. This was the second meeting that the committee organized to discuss the implementation of the Academy's partnership project on Harnessing Science, Engineering and Medicine to Address Africa's Challenge.

The Academy contributed to the design and contents of the project and used the occasion to share experiences and build relationships with professionals who had come from various parts of the world. The group visited the Headquarters of the Academy on 27 February 2016.



The Academy's collaboration visits and workshops

# 3. STRENGTHS, WEAKNESSES AND CHALLENGES OF THE ACADEMY

## 3.1 Strengths

From the point of view of the review of the implementation plan of the 2016–2017 budget year, the completion of the renovation of the Headquarters, inauguration of the Creative Arts and Science Centers, launch of the Academic Press, the more than satisfactory completion of study projects, and the continuation of public lecture series in Addis Ababa, Bahir Dar, and Hawassa could be taken as strengths of the Academy.

## 3.2 Weaknesses

Inability of the Academy to recruit professionals with the required qualifications and job experiences for vacant positions at the Secretariat, inability to generate project ideas that help mobilize resources, and inability to break down activity and budget plans into monthly and quarterly details supported with figures could be taken as the weaknesses of the Academy.

Even though the 2016–2017 activity plan has been broken down into months, it was not supported by quantitative indicators. This has made it difficult to undertake quarterly evaluations in quantitative terms in the quarterly reports.

Some of the problems that could be pointed out, from the point view of plan preparation, are that there is no staff designated to follow up with the Secretariat's plan and neither is there an organizational

system of preparation of the annual plan. The Secretariat will take bold steps to address the weaknesses based on the suggestions forwarded from the Science, Communication and Technology Standing Committee of the EFDRE House of Peoples' Representatives. It will prepare a detailed Activity Plan with the corresponding budget, including program planning with the required budget for the 2017-2018 budget year. It will also make a quantitative evaluation of implementation of the plan from various aspects.

### 3.3 Challenges

Below are the main challenges faced in implementing the 2016-2017 budget year annual plan:

1. Participation of Members of the Academy was Below expectation
2. Inability to attract and retain the skilled human power needed by the various positions of the Secretariat
3. Insufficient budget for planned activities
4. Lack of adequate and timely responses from stakeholders on activities plan to be implemented in collaboration

Though the completion of projects has been delayed, it is encouraging that all projects have been satisfactorily completed because of the efforts made to address the challenges for a successful completion of the implementation plan. However, the Academy still has to work on generation of project ideas that could help attract funding. The General Assembly of the Academy deliberated on the issue and decided to beef up and restructure Resource Mobilization and Public Relation Standing Committees and to take bold measures to get things moving. It is believed that this will help solve the problem.

## 4. BUDGET ALLOCATION

The Academy had approved more than Birr 17,000,000 for the execution of the 2016-2017 budget year annual plan and details of utilization of the budget is presented in the table below under operational and administrative annual expenditures.

## Appendix : Ethiopian Academy of Sciences budget implementation plan review of the 2009 EFY

No	Strategic goals	Main planned Activities	Implementation	Level of implementation	
				Main Activity	Goal
1	Recommend evidence-based policy directions	Enable the Ethiopian Panel on Climate Change (EPCC), established under EAS, to carry on its work	Discussion has taken place with the Ministry of Environment, Forest and Climate Change to cooperate in 2010 to help EPCC resume work	Medium	High
		Develop a strategy for a coordinated and sustainable use of water resources of the Renaissance Dam	There is no agreement signed between EAS and the Ministry of Water, Irrigation and Electricity. The issue has been included in the discussion that took place with the Prime Minister	Medium	
		Conduct consensus studies on five issues identified by the Working Groups	Three studies have been undertaken on topics identified by the Secretariat and other institutions	High	
		In consultation with the ministries of Science and Technology, Education, Health, Agriculture and Environment, Forest and Climate Change, identify consensus study topics that would lead to evidence-based policy development	Agreement has been reached to sign a memorandum of understanding with the Ministry of Environment, Forest and Climate Change to work on climate change, and other issues to be jointly identified in the future.	High	
		Develop research ideas that would support the implementation of the country's biotechnology roadmap	Discussion has been held with the Ministry of Health to collaborate with the Ministry as well	Very high	

Very high	High	Medium	Low	Very low
5/5	4/5	3/5	2/5	1/5

No	Strategic Goals and %	Main Planned Activities	Implementation	Level of Implementation	
				Main Activity	Goal
		Review projects/programs and provide professional support to Government efforts to set research priorities at the national level	Assigned professionals are participating in the activities being undertaken by the Ministry of Science and Technology, representing the Academy	High	Medium
		Develop research ideas, based on the country's science, technology and innovation policy, to build capacity in materials science, nanotechnology, space science, green technology, and peaceful uses of nuclear energy, or nuclear science and technology	No suggested research ideas thus far	Very low	
2	Carry out consensus studies on issues of national importance	Create training manuals on research leadership and science communication and provide training to stakeholders, leaders of research and higher education institutions and professionals	Preparation of the research management training manual, that had started the year before, has been completed and a three-day training has been given to about 50 researchers and research leaders	Very high	
		Conduct public lectures and discussions on selected topics in and outside Addis Ababa	Eight lectures have been conducted in Addis Ababa and three outside Addis Ababa	Very high	
		Organize workshops, symposia and consultation forums on contemporary issues and study results of the Academy	Workshops were organized and inputs have been gathered on biotechnology, science and technology human power, research journals, and study results of the sugar by-products development roadmap	Very high	

No	Strategic Goals and %	Main Planned Activities	Implementation	Degree of Implementation	
				Main Activity	Goal
3	Promote Science, Technology and Innovation (15)	Recognize outstanding contributions in the fields of science, technology and innovation Start radio and television programs to promote the Academy's activities, research findings, scholars who have made outstanding contributions and artists Set up a virtual laboratory to demonstrate a variety of science experiments Organize the short and long-term structure and operation plan of the Science Center Furnish the Science Center with human power, infrastructure and components needed in the short-term so that it begins providing services Equip the Creative Arts Center with human power, infrastructure and operating system needed in the short-term so that it begins providing services Prepare and get approval for the short and long-term structure and operating plan of the Creative Arts Center Disseminate research findings through publications and electronic media	There is plan to start the recognition ceremonial with outstanding PhD research theses No contracts have been made and neither have programs been transmitted yet This will be part of the development of the Science Center The Center's organization and structure have been approved Preparations have been made to equip the Center and it has started providing limited services The Center has been equipped with the necessary components and has started providing various services The Center's organization and structure have been approved It has been decided to publish the Academy's newsletter (maintaining quality) and various scientific papers in language that is accessible to the public	Low Low Low Very high High High High	Medium



Strategic Goals and %	Main Planned Activities	Implementation	Degree of Implementation	
			Main Activity	Goal
	Enable Members of the Academy to provide information on various issues of science and technology on the media	Information has been given to various media representatives as part of the monthly public lectures and discussion platforms	Low	
	Establish the Academic Press	The Press has been set up and launched	High	
4	Make the Academy's financial sources sustainable	Develop project proposals and convene discussions with sponsors to secure financial resources needed to conduct consensus studies	High	
	Undertake a study to set up a science teaching aids manufacturing firm that also provides related services and design its implementation strategy and plan	Encouraging results have been registered to obtain financial support through discussion with high Government officials	High	
5	Strengthen the Secretariat with the necessary human power and infrastructure (10)	Staff the Academy's Secretariat with the required human power as per approved structure	Low	
	Provide staff with training on communication, project proposal development, use of information technology, project implementation follows up and review, development of financial resources, public relations etc.	No skills training has been provided so far	Very low	

Strategic Goals and %	Main Planned Activities	Implementation	Degree of Implementation	
			Main Activity	Goal
	Provide office spaces and supplies for meetings and works of the Board, the Ethiopian Young Academy of Sciences and Working Groups	Office spaces and supplies have been fully provided for	High	
	Enable Working Groups, as per the guidance that would be approved by the Board, to coordinate and provide leadership so that they plan and implement activities accordingly	The Bylaws for Working Groups has been approved. The Working Groups have been reorganized according to the guidelines and have resumed work	High	
	Increase membership to the Academy maintaining gender and discipline balance	Twenty-five new members were officially inducted and 22 have been selected. Total membership has grown from 162 in the previous year to 183. Female membership has increased from 14 to 17	Very high	
	Communicate to members, Working Groups and other stakeholders about the activities of the Academy through newsletter, website and email	Two issues of EAS Update, with current information, have been sent out via email and have been posted on the website. However, the remaining two issues have not been prepared and sent out due to lack of a public relations professional	Medium	
	Convene the Annual General Meeting, quarterly Board meetings and monthly meetings of the Executive Committee as per schedule	Meetings have been successfully held as planned	Very high	
	Support and Strengthen the Ethiopian Young Academy of Sciences	Though efforts have been made to support the Young Academy, its activities have not been to the desired level	Low	
	Set up the Academy's library	Mainly historical books are being collected	High	
	Strengthen networks with government offices, the public sector, national education and research institutions, professional associations and think tank groups	Efforts have been made to sign agreements with various institutions, especially universities	Medium	

No	Strategic goals and %	Main Planned Activities	Implementation	Degree of Implementation
6	Strengthen national, continental and international networks (10)	<p>Build up relations and networks with the Network of African Science Academies and the Inter-Academy Partnership to collaborate on continental and international issues</p> <p>Pay working visits to government offices, non-government organizations, and continental and international organizations to promote the Academy more and strengthen relations</p> <p>Study how intellectuals and professionals of Ethiopian origin, residing in Africa, Europe, North America, and Asia can actively participate in the activities of the Academy</p> <p>Forge close relations with professional associations in the country and identify common areas of interest and pursue avenues of mutual support</p> <p>Identify relevant local organizations and design strategies on how they can work together with the Academy and utilize its products and services. Invite their leaders so that they can visit its Headquarters and sign agreements to collaborate on issues of common interest</p> <p>Identify and pay working visits to science academies of other countries and institutions with similar interests from which the Academy can learn useful experiences that would contribute to its success</p>	<p>Consultations have been made with Inter-Academy Partnership and African Academy of Sciences to join forces to work on African challenges</p> <p>Working visits have been made with the Ministries of Health, Education, Science and Technology and African Union and the Economic Commission for Africa to beef up relations</p> <p>No studies on the issue until now</p> <p>The Academy organized meetings to enable professional associations to discuss common challenges and forward them to the Government</p> <p>Leaders of institutions and potential partners have been invited to the 7<sup>th</sup> founding anniversary of the Academy. They visited the Blaten Geta museum and the permanent exhibition that displayed activities intended to promote the Academy</p> <p>No visits as yet. However, a high-level staff of the Academy of Science of South Africa visited Ethiopia to share experiences at a workshop organized on the preliminary findings of the study on evaluation of research journals and establishment of a recognition system</p>	<p>High</p> <p>High</p> <p>Very low</p> <p>High</p> <p>High</p> <p>Very high</p>

# BALANCE SHEET

AS AT 23 SEPTEMBER 2017

Currency : Ethiopian Birr

Assets			
Current Assets			2016
Account receivables	359,513.40		1,580,088.43
Cash and Cash equivalents	<u>12,847,163.47</u>		<u>17,174,403.18</u>
		<u>13,206,676.87</u>	<u>18,754,491.61</u>
Non-Current assets			
Property, plant and equipment	13,765,170.28		8,636,932.78
Land improvement – under construction	-		958,702.13
		<u>13,765,170.28</u>	<u>9,595,634.91</u>
Total Assets		<u>26,971,847.15</u>	<u>28,350,126.52</u>
Liabilities and fund balances			
Current liabilities			
Accounts payable		249,657.72	172,173.63
Fund balances			
Fund balance	12,957,019.17		28,177,952.90
Fixed asset fund balance	<u>13,765,170.26</u>		-
		<u>26,722,189.43</u>	<u>28,177,952.90</u>
Total liabilities and fund balances		<u>26,971,847.15</u>	<u>28,350,126.53</u>

# STATEMENT OF INCOME AND EXPENDITURE

FOR THE YEAR ENDED 23 SEPTEMBER 2017

Currency: Ethiopian Birr

Income		2008
Grants from various donors	1,156,194.73	7,936,478.36
Ministry of Finance & Economic Development - MOFED	10,000,000.00	10,000,000.00
Other income	<u>196,593.77</u>	<u>179,140.00</u>
	11,352,788.50	18,115,618.36
Expenditure		
Project and administrative expenditures	16,978,087.32	9,529,472.39
Surplus / (Deficit) for the period	(5,625,298.82)	(8,586,145.97)



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