



**Report of Global Meeting #5 of
The International Forum of
Meteorological Societies**

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Progress in Development of an Organization

Version 02

Hosted by Hungarian Meteorological Society (MMT)

At the Headquarters of OMSZ -

Hungarian Meteorological Service, Budapest

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Preamble

IFMS was created in 2008 to focus on advancing the goals and objectives of the world’s professional and scientific societies in the field of Hydrometeorology. Since then it has become an incorporated entity with a well-defined charter, a Council and Value Proposition for its members. It has also achieved partnership with WMO through an MOU to assist each other in the promotion of the Science and Technology of Hydro-meteorology and capacity building.



The 5th Global Meeting of IFMS (**IGM5**) was held in Budapest Hungary on September 5-6, 2018 and was hosted by the Hungarian Meteorological Society (**MMT**) at the headquarters of the Hungarian Meteorological Service (**OSMZ**). It was attended by representatives from National Meteorological Societies from all six WMO Regions. Presentations were made as listed in the Program Book as well as discussions on various topics were successfully completed.

This document summarizes the proceedings of the meeting as well as the presentations along with the results of the discussions. It also provides the Action Items to be acted upon in order to make IFMS a vibrant organization. We would like to profusely thank MMT for doing a great job of making local arrangements for IGM5 and for their very warm hospitality. We would also like to thank AMS for offering to host the IGM6 along with their Centennial Celebration in Boston in January 2020.

Thanks also to all delegates who took the time out of their very busy schedules to attend this meeting and make it a great success which is demonstrated by the progress we made in the meeting and the emails we have received since then.

We believe that we had very fruitful discussions and gathered sufficient ideas to move forward. As stated in IGM4, some bold decisions and actions will be required to strengthen IFMS and make it capable of acting as a thread between all the societies and make a big contribution in the creation of Weather Ready Globe. Like Martin Luther King, I also have a dream to see IFMS progress rapidly and be a vital thread between World’s Meteorological and related Societies to create more societies and strengthen each other to help the world in this time of need.

Dr. Harinder Ahluwalia

President – IFMS

Ask not what IFMS can do for you, ask what you can do for IFMS and then see what IFMS can do for you” – based on President Kennedy’s Inaugural Speech

“You must be the change you want to see in the world”.... Gandhi

“Do not take status quo as granted; always think of change for the better” Harinder

“No mission is impossible if a dedicated unwavering person or group is prepared to work hard for it”..... Harinder

“Caution is important, but don’t let it destroy your ultimate goal”....Harinder



Welcome Message from David Grimes, President WMO

On behalf of the World Meteorological Organization (WMO), let me congratulate all of you on your



initiative to form the International Federation of Meteorological Societies (IFMS). At the national level, Meteorological Societies play an important role in fostering the pursuit of science and learning around the significant atmospheric environment and other related earth sciences such as hydrology, climatology and oceanography.

Additionally, these societies also play a catalyzing role in connecting the advances of science with the application of this knowledge to the challenges that civil society faces. On global scales these roles are equally as important. A world with a warming climate is bringing significant challenges to nations, their citizens, governments, institutions, and socio-economic-environmental decision-makers worldwide. Globalization of economic development, environmental action and the implementation of the 2030 Sustainable Development Goals, calls upon you to do your part to contribute. WMO has finalized its strategic intent for consideration by Congress in 2019. Its actions are framed against the backdrop of the 2030 Sustainable Development Goals, the Paris Agreement and the Sendai Framework for Disaster Risk Reduction, all of which are aimed at fostering a world in which all nations, especially the most vulnerable, are more resilient to the socioeconomic consequences of extreme weather, climate, water and other environmental events; and underpin their sustainable development through the best possible services, whether over land, at sea or in the air. Actions proposed will result in better, more relevant, quality and timely services, enhanced earth system observations and predictions, progress in earth system research, strengthened national institutions, and stronger partnerships and gender balance to improve organizational performance and outcomes.

Our new Memorandum of Agreement is beneficial to both IFMS and WMO in terms of supporting the desired, broader outcomes. While WMO offers significant convening powers to bring attention to the relevant science and technologies to address significant societal challenges, you too, have an influencing role on fostering the appropriate science, education and service responses. WMO is convening discussions among the broader hydro-meteorological communities to discuss principles of engagement, roles and contributions with the aim of strengthening benefits for enhanced preparedness, reduced loss of life and property from extremes, better resilience to climate related risks, and increased socio-economic value to society at large.

I, on behalf of WMO, look forward to a prosperous and meaningful relationship going forward. I encourage IFMS to broaden your reach to all Hydro-Meteorological Societies to meet your full potential to support the betterments of all the world's citizens.

David Grimes

President, World Meteorological Organization

Assistant Deputy Minister, Meteorological Service of Canada



Introduction

The 5th Global Meeting (GM5) of IFMS was held in Budapest Hungary and was hosted by the Hungarian Meteorological Society (MMT) at the headquarters of the Hungarian Meteorological Service (OMSZ). It was attended by representatives from more than 20 National Societies from all six WMO Regions.

The meeting was held in two segments; the first one was on the WMO/WBG supported initiative the Global Weather Enterprise (GWE) and was a part of the EMS Conference. It took place during the morning of September 5, 2018 at the venue of the EMS Conference - Corvinus University, Budapest - and was organized by PRIMET (<http://primet.org/>) and ECOMET (<http://www.ecomet.eu/>). Thanks to EMS, the IFMS GM5 delegates participated in this meeting. This meeting is summarized in Part II of this Report.

The rest of the IFMS GM5 lasted one and a half day (September 5 afternoon and September 6, 2018 whole day). The proceedings of this Part of the Meeting followed closely the Program Book which had been prepared and distributed before the IGM5. A hardcopy was provided as a part of the registration kit.

The following section present the summary of the Meetings.



PART I: Proceedings at OMSZ (Hungarian Met Service) HQ

September 5, 2018 (Afternoon) - Session 0

The IFMS Global Meeting Five (**IGM5**) was held on September 5-6, 2018, first half day of September 5 as a part of the EMS Conference GWE Session and the remaining part at the Headquarters of OMSZ-Hungarian Meteorological Service, Budapest.

Summary of DAY 1 – Afternoon Proceedings

Opening Session

Dr. Harinder Ahluwalia (President of IFMS) was the Moderator for the Opening Session. The President of Hungarian Meteorological Society (MMT) **Dr. Dunkel Zoltan**, who also was the Vice President (Administration) of IFMS in the last Council, gave his warm welcome remarks to all the participants and hoped that the current Meeting will produce useful results to move IFMS forward.



He had provided his opening remarks for the Program Book for this IFMS Global Meeting #5. Readers are referred to the Program Book for his detailed remarks. He stated that he was involved in the meeting held in Atlanta in 2010 which created IFMS. He also participated in the meeting in 1999 in Norrköping in Sweden in which the European Meteorological Society (**EMS**) was founded. He quipped if you live long enough you can see a lot of history being developed in front of your eyes.

Dr. Zoltan was followed by the current President of Hungarian Meteorological Service, **Mdm. Kornélia Radics** who also gave her remarks welcoming all the delegates to the Headquarters of OMSZ-Hungarian Meteorological Service, the venue of the meeting. She hoped that the meeting will be very fruitful and attendees will enjoy their visit to beautiful Hungarian Capital Budapest. She was happy that the meeting was being held at the OMSZ.



IFMS President **Dr. Harinder Ahluwalia** expressed his gratitude for the arrangements made by MMT with assistance from OMSZ, and also welcomed representatives of the IFMS member societies who took time out of their busy schedule to attend this meeting. He then borrowed the statement of President Kennedy and reminded the attendees that at this stage the member societies must ask themselves “what they can do for IFMS to make it really strong and then expect IFMS to help them in various important ways mentioned in the Value Proposition”. He also added that as Archimedes stated “Give me a lever long enough (finances) and a fulcrum (strong Council & Volunteers) on which to place it, and I shall move the world”. In order to achieve success, we need money and volunteers.

There has been some resistance from some member societies about our participation in the WMO/WBG GWE Initiative while others would like to keep abreast with this Initiative. I would like to state as John McCain said: “Our shared values define us more than our differences and acknowledging those shared values can see us through our challenges today if we have the wisdom to trust in them”. Not every society has to participate in all Value Proposition Items. You can participate in the ones you feel useful for your society and you feel comfortable with.



After the Opening session, **Mr. Dimitar Ivanov** from WMO, gave his keynote speech about GWE. Mr. Ivanov described the perspective from WMO's point of view: why they are promoting GWE. WMO would like to update its policies and guidance to assist Member countries. WMO will enhance its partnerships with World Bank Group, industry through HMEI and academia but will maintain its role as UN authoritative voice on weather, climate and water.



In EC-70 Congress, WMO agreed to grant IFMS consultative status which will be officially communicated to the President of the IFMS by the Secretary General of WMO. In EC-70 meeting in June 2018, WMO invited IFMS to participate in its consultative role.

WMO would like to collaborate with IFMS to promote GWE as a joint effort. After the keynote speech, Dimitar Ivanov suggested to the participants to request their respective NHMSs PR to promote the cooperation between IFMS and WMO. More detailed summary of his presentation is provided in the summary of the morning session at EMS Conference provided in Part II of this Report.

Presentation by Hilda Carr of ECMWF

After the Health Break, Hilda Carr, Head of Communications from the European Centre for Medium Range Forecasting (**ECMWF**) gave a short presentation on the role of ECMWF and its development -



European co-operation at its best. ECMWF's role is to address the critical and most difficult research problems in medium-range NWP that no single country could tackle on its own. ECMWF plays a unique role and operates with 34 member and cooperating states with a staff of 350 + and partnerships around the world. ECMWF activities include Global numerical weather forecasts at three ranges (Medium Range, Monthly plumes and Long-Range Predictions), Supercomputing

and data Archiving, and Education and training program. Working with the EU, it also provides Atmosphere Monitoring Service (High resolution mean sea level pressure and ensemble spread), Climate Change Service (Total Precipitation (mm) – ensemble distribution and Flood Forecasting. It operates Copernicus Climate and Atmospheric Services. Copernicus Emergency Management Service (Copernicus EMS) provides information for emergency response in relation to different types of disasters, including meteorological hazards, geophysical hazards, deliberate and accidental man-made disasters and other humanitarian disasters as well as prevention, preparedness, response and recovery activities. The Copernicus EMS is composed of an on-demand mapping component including the provision of rapid maps for emergency response and risk & recovery maps for prevention and planning and of the early warning and monitoring component which includes systems for floods, droughts, and forest fires. Its strategy for 2025 is to look at problems with Earth System Approach. It plans to increase the horizontal resolution of Ensemble Forecasting from current 18 km to 9 km on 2020 and 5 km by 2025. Under future development and challenges ECMWF plans to Assimilate more observations in the coupled data assimilation system. Better assimilate observations at the air-sea interface as well as radiance for lower troposphere, scatterometer SST measurements. It also plans to use higher resolution Earth System Model. It is also enhancing the Cloud Computing and Big Data Project – two way data management. It also plans a new data centre in Italy by 2020. It is also involved in Education and knowledge sharing.

Harinder thanked Hilda Carr for her interesting and informative presentation and hoped that Asia – with the highest GDP of all the continents will also create such a centre for the betterment of science and technology in Asia and for providing benefit to the society at large.



IFMS Status Report by Harinder Ahluwalia

Harinder Ahluwalia made a presentation on the history of IFMS & what has been achieved since the GM4 in New Orleans in January 2015.

His Presentation consisted of the following four parts:



- 1. IFMS Progress Report**
- 2. IFMS Value Proposition**
- 3. Need for Strong Effort by IFMS Council Members**
- 4. Need for Volunteers**

He outlined the objectives of the IFMS and the results of organizational work. The IFMS has achieved many important milestones including incorporation, defining and starting to implement the Value Proposition, starting Webinars, Newsletter, and cooperation with WMO etc. He then outlined each of the 10 Value Propositions, their Objectives and their current status of implementation.

He stressed the need for a very strong participation of the members of the newly elected Council to implement the various tasks required to strengthen IFMS. He also outlined the need for volunteers (see Annex B) to execute various tasks.

During the general discussion. Prof. Liz Bentley, CEO of the Royal Met Society (RMetS) and IFMS Council Member for Region VI suggested to consolidate a couple of WMO related Value Propositions into one. In fact, there are three such items which have now been combined into one making a total of 8 Value Propositions (see Annex C). She also recommended that IFMS should set up some clear targets for the next three years and prioritize those goals.

EtMS Representative and new Council Member for Region I, Mr. Workneh Degefu, expressed his appreciation for the work done by the IFMS President and the first term Council Members, and encouraged IFMS and WMO to develop closer relationship. The immediate past-President of the Australian Meteorological and Oceanographic Society (AMOS) Ms. Mary Voice seconded that statement, which was supported by the rest of the participants. Ms. Voice also suggested that at the next Council meeting, IFMS Council should consider the establishment of a working group to develop a strategy for the next phase of the website and the level and value of using social media for the development of means of communications for IFMS and its members. In order to develop the communications mechanism which best meets the needs of different societies, we must keep the regional diversity and capacity as well as language grouping in mind.

ACTION: IFMS Council to consider setting up a Committee/Working Group to develop and implement a communication strategy including Website and Newsletter.

Prof. Liz Bentley recommended that IFMS set up some clear targets for the next three years, and prioritize those goals. Prof. S. K. Dash from IMS suggested to add IFMS in the activities of member societies. These suggestions were supported by all the delegates.

Vice President Finance Dr. Keith Seitter, Executive Director of the American Meteorological Society (AMS) suggested to consider some Value Proposition activities e.g. IFMS Award, which can possibly increase the impact of IFMS. Harinder had already supported this because he feels that recognition by an International Society like IFMS as it develops would mean a lot and will also attract more participants and volunteers.



Session 1: Discussion on IFMS Value Proposition & its Implementation

Moderator: Harinder Ahluwalia – substituted for Yongyun Hu who could not make it to the meeting.

Panelists: Liz Bentley, Buruhani Nyenzi



The Moderator introduced the session and each of the two Panelists. Each Panelist was asked to make a short remark but no specific presentation was seen necessary because some discussions had taken place under the Status Report. In this session each item was discussed in detail. Harinder displayed each Value Proposition item one by one and explained its objective and its current implementation status. (Please see Annex C). He stated that we have already acted on many Value Proposition Items and the incoming Council will strengthen these actions.

Our support for WMO efforts was seen to be important but Keith Seitter stated that we should keep proper balance between other Value Proposition Items and our participation in GWE to ensure that we satisfy the needs of all our member societies.

In order to optimize the benefits to member societies, we should work in certain items through the Regional/Continental Societies. It was decided to form a Council Committee to thoroughly review each item in the Value Proposition and prioritize them. However, Harinder felt that we can divide the required work among various volunteers and work on as many items as possible. For example, Item 6 of the Value Proposition which is Accreditation/Certification/Training (ACT) is already being worked on by a group of people (Liz, Keith, Harinder, etc.). It does not interfere with the implementation of means of Communications (Website, Newsletter and Social Media). We should form appropriate committees to work on different items. This will be done in the near future. Dr. Nyenzi made a comment that it is very clear that much work has been done to form Societies in the developed countries which are also members of IFMS. There is an urgent need for IFMS to work with NMHSs from developing countries to see that national and regional societies are formed in those countries and regions respectively.

Harinder also stated it will take dedication of ALL Council Members, involvement of volunteers and finances to achieve strong results. It is up to us collectively and individually to understand what we are trying to do, what is required to achieve that and how we present that to member societies and in turn member societies to their members to attract volunteers.

ACTION: Develop Strategy for cooperation with Regional Met Societies and other similar regional groupings.

ACTION: IFMS Council to define Committees to implement Value Proposition Items and look for volunteers to staff these committees. If sufficient volunteers are not found, then prioritize the Value Proposition Items and implement first the highest priority ones.

ACTION: IFMS Council to consider setting targets for each Value Proposition and to measure success



over the next three years. For example, each year we want to make say 3 existing non-member societies members and create 3 new Societies.

Conclusion of Day 1

The discussions on the first day were very fruitful. Harinder Ahluwalia thanked all participants for contributing their ideas. He stated that due to the limited time, not all points of views could be heard. He requested the participants to send their ideas about Value Proposition Implementation via email to him. He again urged them to participate actively in different roles whether as a Council Member, Volunteer acting as Committee Chair or Committee member. With hard work we will be able to strengthen IFMS to assist its member societies and make them stronger through help from each other.

ACTION: IFMS Members and IGM5 participants to forward to the IFMS President their suggestions and ideas about prioritizing and implementing the Value Proposition items.

Welcome Dinner

Welcome Dinner was hosted by Dr. Zoltan, the President of MMT. It was hosted at a nice restaurant near the Hungarian Meteorological Service premises.



Summary of DAY 2 Proceedings

Session 2

2.1: Key Note Speech of Prof. S. K. Dash on: Role of Met Societies in International Cooperation in Climate Science

The second day meeting started at 9 A.M. again at the Headquarters of OMSZ-- Hungarian Meteorological Service. After welcome by the President of IFMS. the first session started with a keynote speech by Prof. S. K. Dash, the President of IMS and IFMS Council Member for Region II on the topic: "The Role of Met Societies in International cooperation in climate science". However, first he started with the information about IMS.

The Indian Meteorological Society (IMS) was established in 1957 with its Head Quarters at New Delhi, India. Currently, it has more than 3500 Life Members spread across its 30 local chapters in various cities in India. Its National Council consists of the President, Immediate Past President, two Vice-Presidents, Secretary, Joint Secretary, Treasurer and eight Council Members.

IMS consists of Honorary Fellows, Fellows, Life Members, Associate Members, Patrons and Institutional Members. Main objectives of IMS have been the Advancement of meteorological and allied sciences in all their aspects, Dissemination of the knowledge of such sciences both among the scientific workers and among the public, and Application of meteorology and allied sciences to various constructive human activities such as agriculture and land usage, irrigation and power development, navigation of sea and air, engineering and technology, medicine and public health etc. IMS regularly organizes Annual Conferences named TROPMET/INTROMET, celebrates World Meteorological Day, Earth Day, World Environment Day, World Oceans Day and Ozone Day. In addition, IMS organizes Training Programmes for School/College Teachers, Brain Storming Workshops on Thematic Issues, Supports Members to write Books and undertakes Awareness/Stakeholders Programmes. IMS is a member of IFMS and it has executed MoUs with other reputed scientific societies such as AMS, Canadian Met Society, Earth Watch Institute etc.

The gist of his very interesting presentation is provided below.

Based on the Fifth Assessment Report of Intergovernmental Panel on Climate Change it is known



that in case of international cooperation in climate, the evidence gathered and the agreements on those can be categorized under five classes. Some evidence is robust in nature with both high and medium agreements. Some other evidence is medium type with high, medium as well as low agreements. Keeping the scope of the meteorological societies in mind one can identify areas such as Technology transfer and diffusion, Knowledge development, Capacity building etc. so as to contribute to international cooperation effectively. It is recognized that there are several gaps in knowledge and also in data. Met societies can augment R&D in order to acquire strategic knowledge and develop common data base for easy availability to the scientists. Since meteorological societies have close collaboration with the government bodies as well as with nongovernmental organisations, it is easier for them to act as bridge between the two for betterment of society. Met societies can constantly interact with the people at large and contribute in getting feedback in vulnerable sectors such as agriculture, human health, water and energy so as to strengthen the international cooperation. The agenda for IFMS should be to encourage weather and climate scientists, operational agencies and industry to create meteorological societies in many more countries across the world. Financial stability of the meteorological societies is of utmost importance since the nerve centres of activities will be at the local level. Meteorological societies in due course will have to become proactive and



innovative in working hand-in-hand with their respective governments. Simultaneously, strong linkages between IFMS, WMO, UNFCCC and several other international agencies will further the international cooperation in climate research and services.

Dr. Dash pointed out that as a non-partisan body (with membership from all PPA sectors) IFMS should increase opportunities for international cooperation of all stakeholder through engagement in the UN System, and use IMS as example for Chapters.

Dr. Ahluwalia responded that our member societies are our chapters and we are planning to cooperate with Regional Societies such as EMS (Europe), FLISMET (South America), EAMS (East African Meteorological Society), etc. to divide work and achieve better results. By properly delineating the roles of the three levels – International, Continental and National – and helping each other in executing those roles, we can achieve much better results. Hopefully in the near future there will be an Asian Meteorological Society in Asia which has the highest GDP as a continent. This will create a very well defined three level cooperation. He also expressed his hope that one day there will be an ACMWF similar to ECMWF. Up to now we have not developed the modus-operandi with Regional Societies. This will be done in the near future.

ACTION: Recommend the creation of an Asian Met Society to all existing Asian NHMSocs.

2.2 Financing of IFMS

Chair: Dr. Keith Seitter Co-Chair: Dr. Harinder Ahluwalia

The second session was on “Financing of IFMS” which was Chaired by Dr. Keith Seitter (who is also the



IFMS Vice President (Finance)) and co-chaired by Dr. Ahluwalia. Dr. Seitter’s presentation was based on his Report on Financing IFMS he had prepared and is presented in Annex D. He identified some finance models for IFMS e.g. Registration fees for Global Meetings which will not generate much money and could be counter-productive, Corporate support through sponsorships, donations,



grants for specific programs like travel, project support grants etc. Some Philanthropic grants are also under consideration. The delegates provided some feedback and discussion on this topic. Dr. Harinder Ahluwalia suggested to consider the ODA program from developed countries which assist developing countries in capacity building. What better and cost-effective way ODA Program can find to develop capacity in needy countries than getting the assistance of IFMS and its member National Societies using their experienced volunteers. Mr. Workneh Degefu from EtMS agreed with the difficulties of organizing finances for IFMS, and suggested that in order to achieve success we have to increase credibility and show products of IFMS. In addition, Workneh also recommended to address more on strategy part to be visible as a useful entity. Dr. Harinder Ahluwalia answered that we will form a committee with a clear mandate to look into financing of IFMS. This Committee working under the lead of the VP Finance Dr. Seitter will look into the details of various potential sources of generating Finances. Dr. Fritz Neuwirth from Austria (OEGM) took EMS as an example to point out annual conference registration fee is important because it generates considerable revenues, and a small Secretariat is also necessary which of course IFMS is planning to have. Harinder also suggested that we can ask member societies to have a line in their membership/renewal form for their members to donate money for IFMS through their societies. But before we do that we must have a short paper on why these members should donate money to IFMS.

Dr. Ahluwalia asked what delegates thought about involvement of private sectors by giving ads in the Newsletter and on the website. Dr. Seitter clarified the nonprofit status of IFMS and we need to be

very careful about how we handle the sponsorship by the private sector to maintain our non-profit status. Mr. Kung-Yueh Camyale Chao pointed out that IFMS does not have big financial resources, but has distinguished and professional human resources in the member societies which need to be stressed. As a side comment, he recommended that IFMS should cooperate with Member Societies to host capacity building workshops. Dr. Ahluwalia responded that the most cost-effective way for educative seminars is Webinars which we plan to exploit that to the fullest.

ACTION: Form a committee with a clear mandate to look into financing of IFMS

ACTION: Develop a very short paper why members of member societies should donate money for IFMS through their membership application and membership renewal form.

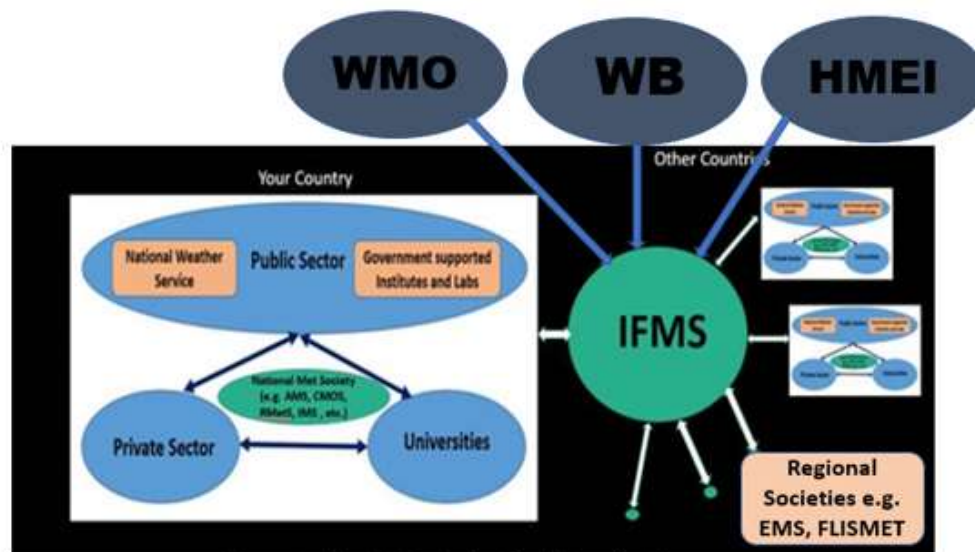
2.3: Role of IFMS in Strengthening GWE

Chair: Keith Seitter Co-Chairs: Kung-Yueh Camyale Chao, Dr. Harinder Ahluwalia



Dr. Seitter chaired the GWE session which was co-chaired by Mr. Chao and Dr. Ahluwalia.

The relationship between the WMO/WBG/HMEI/IFMS is shown in the following diagram.



Schematic Diagram of Potential Entity Relationship

Mr.

Chao identified the role of IFMS in GWE development, and suggested:

1. Bottom up approach: IFMS should hold sessions in events of member societies;
2. Trust from Developing Countries, SIDS: Regional Weather Enterprise Forum hosted by IFMS in conjunction with regional events e.g. InterMet Asia, Pacific Met Council Meeting etc.;
3. Knowledge and capacity building programs: workshops co-financing with external resources; and
4. Human Resources Development: Accreditation Systems.



Program Proceedings for IFMS GM5 – Day Two

Ms. Mary Voice from AMOS and Dr. Buruhani Nyenzi from Tanzanian Meteorological Society expressed their support, for these four points.

Dr. Ahluwalia elaborated the relationship structure of IFMS with other partners including WMO, World Bank Group, and HMEI. He also expressed the desire to define better way of using the capacity of the Regional Societies to avoid duplication of effort. He pointed out IFMS is in a neutral position with all partners, and should take this advantage to create dialogue platform between societies and also within societies between all member sectors (PPA if applicable). He also stated that membership of different societies works in different ways e.g. some societies are only learned societies without involvement of the private sector while others have private sector as an integral component but still maintaining complete activities as a learned society. In early 2000s AMS realized the conflict existed between the three sectors (PPA) of the GWE. A detailed study sponsored by NSF was conducted and a Report known as “Fair Weather Report was created which brought relative peace among the three sectors (PPA). Having all three sectors as members, AMS acts as a neutral host for any conflict resolution.

Similarly, CMOS has a Private Sector Committee (PSC) which helped make meteorological data from the Meteorological Service of Canada (MSC) freely available to all potential users – public and private. Since many different public and private entities in Canada have their own data collection networks, CMOS-PSC participated in discussions on creating a Network of networks in which MSC is responsible for data quality assurance.

IFMS is not asking any Society to change its modus operandi but is only informing all societies about different modus-operandi of various societies and the derived benefits. It is up to each society to pick and choose its own modus operandi and activities with full knowledge of benefits/disadvantages of other models in mind.

Audience provided fruitful discussion on this topic, and the common points are that if any society needs assistance of IFMS in understanding how to involve the Private Sector and create PPA collaboration or needs assistance in understanding the implications of the GWE initiative of WMO, IFMS can help.

Dr. Andrew Eccleston from PRIMET (which represents the perspective of private companies to WMO), recognized the importance of IFMS, and suggested IFMS to have more dialogue with the private sectors, and attract more meteorologists to support IFMS.

Prof. Liz Bentley suggested that in addition to physical workshop, the Webinar on GWE could be implemented. Dr. Ahluwalia gave positive feedback, and stated that many national societies welcome IFMS to assist them in GWE discussion. Recently, we were asked by Argentinian Meteorological Society (CAM) to make a presentation in their Conference to be held in the third week of October, 2018. Financing the travel being a problem, IFMS at this time can only offer Webinars or recorded presentations on various topics including GWE.

Some members asked whether our publications can be made available in other languages (e.g. Spanish, French and even Portuguese). Harinder responded that this is possible if member societies speaking those languages are willing to help in translating.

Dr. Keith Seitter concluded this session stating that: firstly, Webinar on GWE introduction will be the priority; secondly, Regional Weather Enterprise Forums and Capacity building Workshops could be implemented if there is an opportunity. In addition, Dr. Jack Hayes and Dr. Ahluwalia will conduct a Webinar on GWE initiative of WMO/WBG-GFDRR/HMEI. It was also stated that that



although GWE initiative is very important and we should help the proponents of this initiative if we want them to help us grow, we must keep a proper balance between this initiative and our major Value Proposition items prioritized in our Value Proposition Document after conducting the Survey of the member societies.

ACTION: A series of webinars on GWE ranging from a basic introduction through to updates on progress of GWE Forum need to be considered.

ACTION: Regional Weather Enterprise Forums and Capacity Building Workshops to be progressed in regions, where appropriate.

2.4 Announcement of New Council

After the GWE session, Dr. Ahluwalia announced the members of the new IFMS council elected during August 2018. The list of the elected members is provided below and in the Annex E.:

- President: Dr. Harinder Ahluwalia (CMOS) – Canada 3 Years
- Vice-President Finance: Dr. Keith Seitter (AMS) – USA 3 Years
- Vice-President Administration: Dr. Buruhani Nyenzi (TMS) – Tanzania 3 Years
- General Secretary: Dr. Yongyun Hu (CMS) – China 3 Years
- Treasurer - Vacant 3 Years
- Region 1 (Africa): Mr. Workneh Degefu (EtMS) – Ethiopia 3 Years
- Region 2 (Asia): Prof. Sushil Kumar Dash (IMS) – India 1 Year
- Region 3 (South America): Ms. Elizabeth Castaneda (CAM)- Argentina 1 Year
- Region 4 (North & Central America & Caribbean): Dr. Jack Hayes (AMS) – USA 3 Years
- Region 5 (East Pacific): Dr. Michael Coughlan (AMOS) – Australia 2 Year
- Region 6 (Europe): Prof. Liz Bentley (RMetS) – UK 2 Years

As can be seen, the position of Treasurer was vacant in the first phase of the election, therefore, there was a nomination in the Meeting. Due to his strong service in the previous Council and also strong assistance in launching the IFMS Newsletter, Mr. Kung-Yueh Camyale Chao was nominated for that position and was unanimously approved by the IFMS General Body delegates representing more than 20-member societies. Mr. Chao will be the Treasure during the term of 2018-2021 and will continue to produce the IFMS Newsletter as long as we wish.

Dr. Ahluwalia also explained the reason for electing Regional Council Members for 1, 2 and 3-year terms to maintain continuity. The draw to decide these terms was conducted by the Election Commission Chaired by Dr. Chungu Lu with respected members Todd Lane and Subhash Chander Bhan.

Many delegates suggested that the IFMS President writes a letter to the WMO Secretary General with a wide circulation to all interested parties. Dr. Ahluwalia stated that after the confirmation of the Council by the delegates, he was already planning to do that. He has already informed all concerned about the election results and will now let them know about the confirmation by the General Body. (Note: this was done a week after the IGM5).

Lunch Break

After the above session, Lunch was provided by MMT.

SESSION 3

3.1 Presentation by Societies

The afternoon session started with Harinder Ahluwalia introducing the session as one to learn about the activities of those societies which wished to showcase them by making a Presentation. The Societies had been asked to also include what they can do for IFMS and what they would like IFMS do for them.

The following Societies made presentations and their presentation summaries are provided below. PPT Presentations of those societies which provided them to us will be made available on the IFMS Website.

3.1 Presentation by Societies	Societies Representatives
1. Ethiopian Meteorological Society	1. Workneh Degefu
2. Royal Meteorological Society	2. Liz Bentley
3. Australian Met-Ocean Society	3. Mary Voice
4. Tanzanian Meteorological Society	4. Buruhani Nyenzi
5. Portuguese Met and Geophysical Assoc,	5. Olavo Rasquinho
6. FLISMET	6. Graciela Salaberri /Rómulo Paz
7. Meteorological Society of Cuba	7. Graciela Salaberri
8. Soc. Amigos del Viento	8. R. Mario Caffera
9. CAM – Argentinian Meteorological Society	9. Graciela Salaberri
10. International Society of Biometeorology	10. Pablo Fernández de Arróyabe Hernáez
11. Hungarian Meteorological Society	11. Dunkel Zoltan
12. PRIMET	12. Andrew Eccelstone

3.1.1 Presentation by Ethiopian Meteorological Society

Presenter: Workneh Degefu: Manager EtMS

The Ethiopian Meteorological Society (EtMS) is a professional Society, registered in Ethiopia as a non-governmental organization, working in the field of meteorology, hydrology and allied sciences. EtMS was established in January 2007, according to proclamation No.621/2009 of the Charity Organizations and Societies of the Ethiopian Federal Democratic Republic.



The aims of EtMS are:

- To Contribute to the promotion of the improvement and modernization of the science of meteorology, hydrology and atmospheric sciences in the Ethiopia;
- To Create awareness among the public regarding the benefits of meteorological science and to ensure that researchers and students would have access to meteorological information;



- To collaborate with relevant professional societies in the Ethiopia and abroad, with a view to exchanging appropriate new technologies and knowledge;
- To Cooperate with Regional and International institutions that deal with the science of Meteorology, Hydrology and Atmospheric sciences, with a view to improving meteorological services in Ethiopia;
- Promote close association among its members

EtMs can contribute to the activities of IFMS by:

- Reactivating the African Meteorological Society in collaboration with others concerned and encouraging the Society to become member of IFMS.
- Encouraging those African countries that have meteorological societies to Join IFMS if they are not members already.
- Assisting African countries in establishing meteorological societies in those countries where such societies do not exist and encouraging them to become members of IFMS.
- Assisting IFMS in carrying out its activities in whatever way possible.

On the other hand, IFMS can assist EtMS by:

- Identifying scholarship sources and advising in how to go about taping these resources,
- Modernizing the work of EtMS through facilitating technology transfer from advanced societies, e.g. website development and management, and
- Encouraging and assisting in the holding of joint conferences, seminars and workshops as well as carrying out joint research activities with other IFMS member societies through IFMS established collaboration mechanism.

3.1.2 Presentation by Royal Meteorological Society (RMetS)

Presenter: Liz Bentley, CEO RMetS

RMetS was founded in 1850 and is the Learned and Professional society for weather and climate in the UK and is the custodian of the science and profession of meteorology.

RMetS has 3,500 members roughly split into a third academics/students, a third operational meteorologists or consultants and a third amateur meteorologists. Membership has grown by 15% in the last three years, thanks to a proactive Membership Development Group.



We host over 70 meetings and conferences a year and the student conference, that has been running annually for 15 years, is overseen by an organizing committee made up of students. We are involved in public and policy engagement and, in particular, communicating climate science through statements, briefing papers and the media. We have an active education and outreach programme that has been involved in national curriculum consultation and development of resources for teaching see www.MetLink.org or education portal. We publish 7 international journals and scientific publishing accounts for two-thirds of our income. To find out more about the Royal Meteorological Society please visit our new website www.rmets.org.



3.1.3 Presentation by Australian Meteorological & Oceanographic Society

Presenter: Mary Voice, Immediate Past President of AMOS

AMOS welcomes the discussions at IFMS GM5 and wishes to make the following recommendations for consideration by IFMS Council.



1. Aim for regional collaboration – government/industry/ academia:

AMOS suggestions:

- Promote concept of national and regional weather enterprise (N/RWE)
- Promote how to link this effectively with GWE
- Support regions to analyse concepts of GWE with government/ industry/ academia partnerships.

2.. Host an annual global lecture relevant to meteorological (and related) societies:

- that could be posted on a relevant high-profile website, as well as the IFMS website
- AMOS suggest *NOT a scientific lecture, rather, e.g., someone from IAC on the modern role of professional societies, Or, international communication in the Earth Sciences, or, a high-profile person from not-for-profits and science, or,*

ACTION: Investigate ways that IFMS can assist its members to understand and discuss the issues of the GWE and keep them informed about the progress of this Initiative, including ideas from GWEF meetings.

3.1.4 Presentation by Tanzanian Meteorological Society

Presenter: Buruhani Nyenzi, President Tanzanian Meteorological. Society

Dr Nyenzi made a presentation on **Tanzanian Meteorological Society-TMS**. He stated that TMS



is a professional society legally registered in Tanzania with its headquarters in Dar-es-Salaam hosted by the Tanzania Meteorological Agency (**TMA**). It was established in 1987 and given registration No. SO.6735. The Society is a non-profit organization as stipulated in the TMS constitution under article 4 subsections 6. The objectives of the TMS are:

1. To develop, advance and disseminate the scientific knowledge and profession of Meteorology, Hydrology and other related fields in all its phases and applications in Tanzania.
2. To promote the scientific and technical applications of Meteorology, Hydrology and other related fields for rapid advancement of the various socio-economic activities in Tanzania.
3. To popularize education and training in Meteorology, Hydrology and other related fields in Tanzania.



4. To offer professional advice to individuals, organizations and institutions on relevant Meteorological, Hydrological and related matters.
5. To foster co-operation with other societies in the fields of Meteorology, Hydrology and other related fields.
6. The society shall be a non-profit organization and none of its income or net worth shall inure to the benefit of its members.

Dr. Nyenzi further informed the meeting that as part of a strategy to promote the science of meteorology, the society established TMS Academic Excellence Award which is given to the overall best student in B.Sc. degree and best student in Research Project both in Meteorology at the University of Dar-es-Salaam. The award has encouraged and inspired professional excellence among the fresh graduating scientists. In addition to the award programme, TMS members are engaged in providing meteorology awareness lectures at various Universities and schools across the country.

TMS has also developed a Strategic Plan that promotes knowledge and application of Meteorology and Hydrology Science with a focus on the Tanzania National Development Plan in line with the national Vision 2025 geared towards moving the country to a middle income economy and industrialization.

TMS sees the emerging of IFMS as a forum for collaboration of the World Meteorological Societies which has provide TMS with a platform to enhance its visibility globally as featured in the latest IFMS Newsletter (Vol.1 Issue 1,2018)

3.1.5 Presentation by Portuguese Meteorological Society

Presenter: Olavo Rasquinho – President APMG

The presentation summarizes the main activities of APMG, which consist mainly of holding



symposia, colloquia, promote the exchange of scientific knowledge and discussions on the careers of meteorologists and meteorology technicians. It also focuses on the holding of biennial meetings between Portuguese and Spanish meteorologists. Information is also given in APMG publications".



3.1.6 Presentation by FLISMET

Presenter: **Graciela Salaberri – Permanent Secretary FLISMET**

In **1986**, **Latin American Federation of Meteorological Societies** was founded by Argentinian Meteorological Society (**CAM**), Brazilian Meteorological Society (**SBMET**) and Mexican



Meteorological Society (**OMMAC**). Portuguese Society of Meteorology and Geophysics (APMG,) joined the Federation in **1989**.

In **1992** the following three Societies joined the Federation: Cuban Meteorological Society (**SOMETCUBA**), Colombian Meteorological Society (**SOCOLMET**) and Spaniard Meteorological Society (**AME**), and after approval of its statutes, the Federation became **Federación Latinoamericana e Ibérica de Sociedades de Meteorología (FLISMET)** or the Iberian and Latin American Federation of Meteorological Societies.

The Uruguayan Meteorology, Environment and Development Wind Friendly Society (Adel V)



joined the Federation in **2010** and is currently the Permanent Secretary of the FLISMET and **SBME (Brazil) is the current Presidency of FLISMET, its president is Dr. Rómulo Paz Alvarado.**

The following are the salient points for FLISMET:

- **Chairmanship:** Changes every two years-during Flismet congress.
- The **highest authority** of the FLISMET in-charge of the **Executive**

Committee of the Federation is its President

- The **highest governing body** of the Federation is the General Assembly of the Council of Representatives
- **Congress** is supported by the host Country
- **Languages:** Spanish and Portuguese

FLISMET's GOALS:

- To support and foster the spirit of union among the Societies.
- To develop conferences, seminars, meetings and courses concerning Meteorology and Environment.
- To develop relationships among similar entities.
- To support members' initiatives to contribute to scientific, technical and intellectual improvement.
- To advocate for Professionals in Meteorology and their activities.
- To foster the creation of National Meteorological Societies and their membership to the Federation.

CURRENT MEMBERSHIP - 12 Countries:

1. **Argentina:** Centro Argentino de Meteorólogos (CAM)
2. **Brasil:** Sociedade Brasileira de Meteorologia (SBMET)
3. **Bolivia:** Sociedad Meteorológica de Santa Cruz
4. **Colombia:** Sociedad Colombiana de Meteorología (SOCOLMET)
5. **Cuba:** Sociedad Meteorológica de Cuba (SOMETCUBA)
6. **Chile:** Colegio de Meteorólogos de Chile.A.G.
7. **Ecuador:** Asociación de Meteorólogos del Ecuador (ASOMET)
8. **España:** Asociación Meteorológica Española (AME)
9. **México:** Organización Mexicana de Meteorólogos A.C. (OMMAC)
10. **Perú:** Sociedad Meteorológica de Perú (SOMET-PERU)
11. **Portugal:** Associação Portuguesa de Meteorologia e Geofísica (APMG)
12. **Uruguay:** Sociedad Amigos del Viento (AdelV)

From the former Latin-American federation of meteorological societies to the current Iberian and Latin American Federation (**FLISMET**), the federation envisions integrity and solidarity, sustained in convincing that networking is a strength to the organizations that join and support.

FLISMET has the pleasure to invite the IFMS and all its associates to the CBMET Brazilian Meteorology Congress and Flismet meeting - <http://www.cbmet2018.com.br/>.

3.1.7 Presentation by Meteorological Society of Cuba

Presenter: Graciela Salaberri – Permanent Secretary FLISMET

The Cuba Meteorological Society was created at 1992 with the objective to contribute to the development and application of national policy in the field of scientific research; as well as, training and dissemination of the meteorology in the community.



The Society is open to all those people who develop their activity in the field of meteorology, in any of its aspects and related subjects for professionals and laymen to this science.

The Society is a non-profit, national and scientific association, with legal personality and own patrimony.

Main Activities of the Society include:

- In collaboration with INSMET and Cuban NGOs, Seminars, Courses, Workshops, etc. are held. on Meteorology and its applications; as well as the Environment



- Promotion and dissemination of meteorological and environmental issues and their impacts on social and economic life; to the entire population in order to raise the meteorological culture and can be prepared for the effects of extreme weather events
- Multimedia and audio-visuals.

Cuban Meteorological Society collaborates with NGOs and National and International Institutions.

Cuban Meteorological Society has the pleasure to invite the IFMS and all its associates at the 500th Anniversary of La Havana, during December 2 to 6, 2019. It plans to hold the Cuban Meteorology Congress, the III Seminar-Workshop of Pollution of the Atmosphere and the II Climatology Seminar during that period.

These events are convened under the auspices of the Institute of Meteorology and the Office of the Historian of the city of Havana.

3.1.8 Presentation by Sociedad Amigos del Viento

Presenter: Ruben Mario Caferra – Founding Member AdelV

Amigos del Viento (AdelV) is a civil society with legal status since 2003, promoting educational activities and dissemination of Meteorology and related scientific disciplines.

The mission of the Society is to contribute to national efforts in the mitigation of human and material damages caused by atmospheric and climatic phenomena, as well as the validation of meteorological knowledge and its use in daily life and in the productive activities of the country and in the Region, carrying out studies in Meteorology and related disciplines, and aiming to the legitimate the various professions and métiers of Meteorology (operative levels & applications) and their recognition within the Uruguayan Society.



To promote educational activities and dissemination of Meteorology and to seek collaboration and exchange of technological, scientific and academic information nationally and internationally, AdelV became a member of FLISMET (Latin American and Iberian Federation of Meteorological Societies (currently holding the Permanent Secretariat)) and also a member of the Uruguayan Network of Environmental NGOs (currently holding the Presidency). From 2012 is also a member of Climate Action Network International (CAN) where he is currently part of the Board. As well, AdelV is currently part of the Board at the Global Network of Civil Societies for Disaster Reduction (GNDR) as the Representative of the South American organizations, in his second term like Vice Chair.

3.1.9 CAM – Argentinian Meteorological Society

Presenter: Ruben Mario Caferra – Meritorious CAM member

Presentation of **Centro Argentino de Meteorólogos – the Argentinean Meteorological Society (CAM)**. Circa 1952, WMO created the Regional Center for Vocational Training in Meteorology in Argentina (with its 2 branches: a) on-the-job-training and suitability courses in the Services – SMN (National) and SMARA (Navy) - and b) academics at the UBA - Buenos Aires University). Since its own creation in 1970 CAM (Centro Argentino de Meteorólogos – the Argentinean Meteorological Society) supported at least the latter, admitting foreign advanced students to it. CAM maintains its objective of sustaining the scientific activity of meteorology in the country, organizing a Congress (CONGEMET) every three years and the Meteorological magazine (METEOROLÓGICA), as well as conducting several Courses, mainly to aviators and shipmen.

Very active partners of CAM promoted an important core of academic development in Meteorology in Brazil (mainly during the 80's) and in Uruguay (since 1987). CAM was a founding partner of FLISMET as well. Nowadays, CAM is at stake tending to improve the meteorological professional activity, particularly with the impetus of a Professional Law that defines and puts within the framework of the law our work (this bill has half approval at the House and waits for the definitive vote at the Senate).

3.1.10 Presentation by International Society of Bio-meteorologists

Presenter: Pablo Fernández de Arróyabe Hernáez - President ISBM

Biometeorology is an interdisciplinary science studying the interactions between atmospheric processes and living organisms - plants, animals and humans. The International Society of Biometeorology (ISB) was founded in 1956 and provides an international forum for the promotion of interdisciplinary collaboration between meteorologists, health professionals, biologists, climatologists, geographers, ecologists and other scientists. The Society, as a community of scientists with similar interests, fulfils an important role in providing information, expertise and advice to organizations requesting this assistance worldwide. The ISB represents the most comprehensive organization to bring together people with different expertise in these areas. The International Forum of Meteorological Societies (IFMS) was formed to foster and encourage communication and exchange of knowledge, ideas and resources among the world's more than sixty meteorological societies. Given that the impacts of climate change on organisms are a crucial issue in global change research, there are



many opportunities for the activities and expertise of the ISB and its members to interact and support meteorological societies participating in the IFMS. The areas that seem most self-evident are: 1) information exchange on climate change impacts; 2) possible joint society membership agreements; 3) opportunities for co-sponsorships of professional conferences and capacity building action in developing countries; 4) development of training in cooperation with other scientific societies to confront digital divide in the disciplines of Meteorology and Climatology.

Harinder Ahluwalia stated that it is interesting to see interdisciplinary organizations like ISBM as a member of IFMS. We should explore the ways we can collaborate with those member societies which are interdisciplinary societies such as: International Society of Biometeorology (**ISBM**) American Geophysical union (**AGU**), International Association for Urban Climate (**IAUC**), International Association of Broadcast Meteorology (**IABM**), International Association of Meteorology and Atmospheric Sciences (**IAMAS**).

ACTION: Explore ways of involving interdisciplinary societies such ISBM, AGU, IAUC, IABM and IAMAS in IFMS activities.

3.1.11 Presentation by Hungarian Meteorological Society - MMT

Presenter: Zoltan Dunkel



The Hungarian Meteorological Society is a non-profit scientific organization for the study of meteorology, improving general education, disseminating meteorological knowledge, environmental awareness and sharing new scientific results with other meteorological societies in Europe and worldwide. It was founded in 1925.

The MMT organizes scientific meetings and symposia, establishes permanent and ad hoc committees, maintains sections, co-operates with other institutions and international organizations, issues and edits meteorological publications, prepares meteorological studies and gives awards for outstanding meteorological activities.

The MMT has no professional staff. Its activities are maintained strictly by volunteers. The main body of the MMT is the General Assembly, which meets twice a year. The members of the board are: the president, two co-presidents, general, scientific, executive and communication secretary and representatives of sections. We have eight sections: Agro- and Biometeorological, Aviation Meteorology, Climate, Atmospheric Dynamics, Atmospheric Environment, Sun- and Wind Energy, Remote Sensing and the Róna Zsigmond Youth Club. We also have the following regional groups: Debrecen, Eger-Bükk, Nyíregyháza, Pécs, Szeged and Szombathely.

Each year, awards are presented to groups and individuals involved in outstanding meteorological activities. The main award of the Society is the Steiner Lajos Commemorative



Medal. The Hegyfoký Kabos Commemorative Medal is presented for an outstanding activity in climatology; the author of the best publication of the year receives the Literature Niveau Award and outstanding agrometeorological work is recognized by Berényi Dénes Memorial Certificate. There are two awards in the youth meteorologist category. The best diploma work is honoured by the Hille Alfréd Youth Prize, and the outstanding young fellow, less than 35 years old, is provided with Róna Zsigmond Foundation Support. The Society also awards a special honorary membership. If the recipient is Hungarian, the diploma of honorary membership will be written in Latin and Hungarian, but if the recipient is foreign, it will be written in Latin and in the language of the laureate.

The main activity of MMT is to organise scientific sessions. During the 2010–14 period we had 104 sessions but during the 2014–2018 period we had up to 143. The MMT has been very active in international cooperation. We invited two important meetings to be held in Budapest.

The greatest challenge is to maintain the activity of the members. Maybe in the internet era the old fashioned meetings are no longer the most useful platform of information exchange. The classical meeting is not the quickest option for knowledge exchange but personal face-to-face discussion could be as exciting a tool of debate as Facebook comments.

MMT has many events planned this year. In August we will organise the 37th Biennial Itinerary conference in Veszprém, later we will participate in the EMS conference and, last but not least, we are the host of the Global Meeting 5 of the International Forum of Meteorological Societies (IFMS). So for the organisation, the regular year-closing general assembly will be a real relief.

MMT's cooperation with other societies is fairly regular. Representatives of the Austrian, Croatian and Slovakian Societies participated in our 90th anniversary ceremony recently and we congratulated the Croatian society on the occasion its 50th anniversary. Nowadays we are collaborating actively with EMS and IFMS because our representative is both a member of the EMS Council and Vice-president of IFMS. Many years ago, our Biennial meeting used to be organised commonly with the Slovakian Society.

MMT's successful meetings were in the last three years Biennial meeting in Sárospatak in 2016, the annual Grape and Climate conference organised by the Szombathely local group, led by professor János Puskás, who is the most active member of our society and the reorganisation of Medical Meteorology symposia (2015, 2017).

Because of low membership fee, the MMT have to increase the number of legal supporters.

The MMT is very happy that the EMS accepted our invitation. The last time such a big meteorological event took place in Budapest was in 2001, when the OMSZ hosted the European Conference of Applied Meteorology (ECAM) and the EMS Annual Meeting. That time we had 150 participants. This year more than 800 abstracts were submitted. I think this means that the



colleagues will be glad to come to Budapest and I hope that it means that they have a good opinion about Hungarian meteorologists and meteorology too. The President of Hungary accepted our invitation to open the conference, which shows the high profile of the event, and will boost the self-esteem and motivation of colleagues. This conference, we hope, will be not only the success of EMS but of Hungarian meteorology too.

The MMT is founding member of European Meteorological Society (1999) and International Forum of Meteorological Societies (2001) too.

3.1.12 Presentation by PRIMET

Presenter: Andrew Eccleston

We requested Dr. Andrew Eccleston of PRIMET who attended the IFMS GM5 to provide us some information about PRIMET and he obliged us by giving us the following information.



PRIMET is a pan European Trade Association for meteorological service providers operating in the private sector. It aims to promote a fair trading environment between the public and private sector in meteorology and its related disciplines.

PRIMET provides the channel of communication between the private sector in Europe and key organisations, including WMO, ECOMET, EUMETSAT, ECMWF as well as the National Meteorological and Hydrological Services.

Membership of PRIMET is open to private sector companies across Europe. Members benefit from a Board of Directors and Secretariat that actively support their business interests by proactively monitoring data service quality and scenarios where unfair competition occurs with commercial services embedded within publicly-funded bodies. For more information see the PRIMET website www.primet.org.



3.2 Experiences of various societies in engaging members in Volunteerism

Session Chair/Moderators:

Prof. Liz Bentley



Panelists:

Dr. Keith Seitter



and

Mr. Workneh Degefu



Since Volunteers are the backbone of every Benevolent Organization and National Societies operate with Volunteers, it was decided to include this topic not only for the benefit of IFMS but for all its member societies. Here is an example, like many others, how so many minds from different societies put together can develop useful ideas and solutions.

After the Society Reports, Prof. Liz Bentley gave a presentation on Volunteerism, which is very important for IFMS development. Liz took RMetS as an example to introduce the management of volunteers. The Society needs to consider and award Positive contribution of the volunteers. In addition, volunteers also have needs for skill development, Career, and network development. Therefore, trainings and public outreach are important. Furthermore, training for right skills is crucial, the Society needs to consider what if something goes wrong. The key for Volunteerism is not numbers, but experience.

Dr. Roger Wakimoto suggested new volunteers are important, not all from friends. Dr. Dash from IMS also reminded to create incentives for the volunteers, not just certificate. Dr. Mary Voice also remind that the management of volunteer needs to consider legal issue. Mr. Workneh Degefu suggested there should be a Fund-raising committee consisting of volunteers.

Harinder made some comments which are as follows. It is important that volunteer-based societies like ours learn best ways of attracting volunteers. Volunteerism is partly inborn, partly cultivated and partly induced. We need to define benefits of volunteerism in such a way that people offer to be volunteers.

Some ways of attracting volunteers are: Cultivate the value of Volunteerism by showing its value, be specific in assigning duties, give titles, give feed-back for improvement, make person feel useful, have volunteer recognition program (e.g. recognition in your publications, in your conferences, awards, etc.), provide incentives (e.g. lower fee for events), etc.

ACTION: IFMS Council to set up a Committee to define the benefits of Volunteerism so that we can attract volunteers and so can each member society.

ACTION: IFMS Council to set up a Fund-raising Committee under VP Finance.



3.3: Announcement for the Venue of the IFMS Global Meeting 6

Date and place of next meeting was proposed by Harinder Ahluwalia. He stated that AMS is celebrating its Centennial in Boston in January 2020. Therefore, he proposed that we hold our IFMS Global Meeting #6 in Boston concurrently with AMS' Centennial Celebration. This Proposal was unanimously accepted by the delegates present in the Meeting.

EtMS showed interest in holding the IFMS Global Meeting #7 in Ethiopia. This proposal was also accepted.

IMS representative showed interest in holding the IFMS Global Meeting #8 in New Delhi but he will need to consult the IMS Council to confirm this.

3.4 Brainstorming Session

On the suggestion of Ms. Mary Voice, the final Plenary session was replaced by the Brainstorm Sessions which consisted of making four teams each moderated by one of the participants. Each Team was given approximately 30 minutes for internal discuss and noting down the ideas and after the discussion period present them to all participants. Following is the summary of the brainstorming sessions.

Group 1: Moderator: Dr Andrew Eccleston from PRIMET

Participants: Buruhani Nyenzi, Workneh Degefu, Tafesse Gurmu, Ruben M. Caffera

Objective: To discuss preparatory work in participation of WMO Congress in 2019.

The Suggested Actions are:



An IFMS Stand/Booth at the WMO exhibition site would show the IFMS brand and act as a focal point for meetings and discussions with WMO Congress delegates.

1. IFMS could make a Statement at the Congress session where all delegates attending WMO Congress are present and ensure that Congress makes a statement supporting the work of IFMS and encourage meteorological societies in WMO member countries to become members of IFMS.
2. We could organize a side event which would be sufficiently attractive to draw WMO Congress delegates. Consider doing this in partnership with other organizations such as PRIMET and HMEI to increase the reach and share costs.
3. We should invite WMO Regional Presidents and Directors to meet with IFMS Council members attending Congress and discuss on the possibility of establishing/strengthening regional societies, e.g. the African Meteorological



Society and also facilitating the attendance of IFMS Council members at WMO regional meetings with a view to introducing IFMS.

4. IFMS campaigners in their territories could try to find a way to be formally invited to participate in their country delegations – and therefore, able to participate directly in the Congress.

Group 2: Moderator: Mary, Voice

Participants: Rômulo da Silveira Paz; Olavo Rasquinho, later Ruben Mario Caffera,

Objective: To discuss how IFMS should get involved with the meteorological community at the AMS-2020 meeting, (AMS Centenary Conference) – in Jan. 2020.

The Suggested Actions are:



1. Develop IFMS handout (needed within next 8-9 months) – can be used for other meetings and purposes e.g. WMO Congress 2019
2. Assign/request a Council member as the overseer/coordinator for the AMS2020 Outreach Project
3. Put together a small planning and production team
4. The coordinator and team are requested to do the following:
 - Refine the project plan and then proceed
 - Develop a budget for project
 - Explore sources for a small amount of funding
 - Explore how to involve the meteorological societies in the outreach at the AMS meeting (e.g. their own posters/flyers, volunteers on the day, etc.)

Group 3: Moderator: Keith Seitter

Participants: S.K. Dash, Kung-Yueh Camyale Chao, Tomas, Halenka, Pavol, Nejedlik

Objective: To discuss Future IFMS Projects and identify potential funding sources

The Suggested Actions are:



1. To apply for training course funding from Foundations
2. To provide training program for country in need
3. To coordinate new proposal jointly with partners e.g. ISB, Future Earth etc.
4. To cooperate with current funding project offered by Universities



Group 4: Moderator: Liz Bentley



Participants: Graciela Salaberri and later Mary Voice

Objective: To discuss and recommend Communication strategy of IFMS

List of communications channels include:

- Written material - leaflets, poster etc.
- Website
- Newsletter
- Social media: Facebook, Twitter, LinkedIn, Instagram etc.
- Group chat: Skype, What's App etc.
- Webinars
- Media - national and local level
- Group emails
- Telephone
- Face-to-face networking

Note: Not everyone uses social media etc.

Barriers to effective communication include:

Language (suggestion was to produce material in English and maybe 2 or 3 other languages i.e. Spanish, Chinese, French etc.)

The Suggested Actions are:

1. Set up a Communications Working Group who will develop and implement a Communications Strategy.
2. Develop a Communications Strategy that considers the following: who are we communicating with, why are we communicating, what do we want to say, when do we communicate, in what format, how frequent, etc.
3. In light of actions from other groups we should prioritise the production of a leaflet and poster about IFMS.
4. The meeting emphasized the importance of involving young people in this work as these are the ones up-to-date with new technologies.



Closing Session

The President of IFMS – Harinder Ahluwalia closed the Global Meeting Five by giving his sincerest appreciation on behalf of all the delegates to the host Dr. Zoltan Dunkel, President and members of MMT, for making very good arrangements. He also thanked Dr. Kornélia Radics, the President of Hungarian Meteorological Service and her staff for letting us use her department's facilities and support provided to the meeting. He also thanked all the delegates from all over the world for taking the trouble to come to Budapest for IGM5. He looked forward to working together with the new Council as well as all IFMS members and partners. He urged the participants to keep the momentum generated in IGM5 going. All delegates expressed gratitude to Harinder and Zoltan for a very successful meeting and hoped to meet again in Boston in 2020.



ANNEX A: ACTION ITEMS

#	ACTION ITEM	Who	When
1	IFMS Council to consider setting up a Committee/Working Group to develop and implement a communication strategy including Website and Newsletter.	Committee #1 headed by P1	
2	Develop Strategy for cooperation with Regional Met Societies such as EMS, FLISMET, etc.	Committee #2 headed by P2	
3	<p>IFMS Council to establish a Committee or Committees to implement Value Proposition Items and look for volunteers to staff these committees. If sufficient volunteers are not found, then prioritize the Value Proposition Items and implement first the highest priority ones.</p> <ul style="list-style-type: none"> ■ IFMS Council to consider setting targets for each Value Proposition and to measure success over the next three years. For example, each year we want to make say 5 existing non-member societies members and create 3 new Societies. ■ IFMS Members and IGM5 participants to forward to the IFMS President their suggestions and ideas about prioritizing and implementing the Value Proposition items. 	Committee #3 headed Suggested Head: Buruhani Nyenzi	
4	Form a Committee to encourage: <ul style="list-style-type: none"> a) existing non-member societies to become IFMS members b) create new society in countries where none exists 	Committee #4 Suggested Head Workneh Degefu and members all Regional Reps.	
5	Form a committee with a clear mandate to look into financing of IFMS	Committee #5 To be Headed by Keith Seitter	
6	Develop a very short paper why members of member societies should donate money for IFMS	Suggested: Harinder and Workneh	
7	Coordinate Best Practices	Committee #6 headed by P6	
8	Coordinate Webinars	Committee #7 headed by P7	



Program Proceedings for IFMS GM5

9	Member Societies to request their members through their membership application and membership renewal form to donate money to IFMS.	All Societies IFMS Treasurer to ensure this	
10	A series of webinars on GWE ranging from a basic introduction through to updates on progress of GWE Forum need to be considered.	Committee #8 headed by P8	
11	Regional Weather Enterprise Forums and Capacity Building Workshops to be progressed in regions, where appropriate.	Committee #9 Headed by P9	
12	Investigate and define in what ways IFMS can: a) assist its members in the area of GWE and keep them informed about the progress of this Initiative b) assist WMO-WBG in GWE Initiative	Committee #10 Headed by P0	
13	Explore ways of involving interdisciplinary societies such ISBM, AGU, IAUC, IABM and IAMAS in IFMS activities	Committee #11 Headed by P11	
14	Contact societies such ISBM, AGU, IAUC, IABM and IAMAS to provide members for Committee 11	Harinder Ahluwalia	
15	IFMS Council to set up a Committee to define the benefits of Volunteerism so that we can attract volunteers and so can each member society.	Committee #12 Headed by P12	

Council Members and Volunteers to offer to head these committees.

Kindly oblige because it is only with your kind help that IFMS can develop into a very useful and powerful organization providing a forum to all Meteorological Societies to collaborate in S&T, share knowledge, information and best practices, learn through Webinars and future Global Conferences, build capacity and help WB-WBG in GWE development.

just the way WMO provided a forum to Meteorological Services of various nations, IFMS is meant to provide a forum to Meteorological Societies of the World.



ANNEX B: Required IFMS Committees



www.ifms.org

Call for Volunteers for IFMS Activities

Dr. Harinder Ahluwalia

1. Introduction

The IFMS is a key organization trying to assist National Hydro-Met Societies in strengthening each other for the promotion of hydrometeorology. It is also a very important component of the promotion of the Global Weather Enterprise. Although we plan to have a small secretariat to run the day to day affairs, fundamentally it is a volunteer-based Organization. In order to implement its Value Proposition (Please see Annex C) we need volunteers to constitute the following Committees:

- 1) Webinars
- 2) Best Practices
- 3) Campaign to attract additional Member Societies and also create new societies
- 4) Fund Raising Campaign Coordinator
- 5) Coordinating Website Updates
- 6) Coordinating Collaboration
- 7) Reviewers for Newsletter
- 8) Evaluation of best ways of using Social Media by IFMS.

It is to be noted that there will be some other Committees formed from time to time. Some of these Committees will be specific task-based transient committees.



2. Committee Constitution and Modus-Operandi

Each Committee will have a Chair and 2 to 3 additional members to implement the tasks related to that Committee.

3. Description of Duties

This section lists the duties of each of the Committees listed above.

3.1. Webinars

One of the activities of IFMS is presenting Webinars on various topics including technical ones. We need somebody to **Chair this Webinars Committee** and find three additional persons to help run this committee. Kindly offer your services. The tasks will include:

- a) Looking for interesting Webinar Topics
- b) Getting it approved by the Council
- c) Sending messages to all societies asking them to contact their members so that interested ones can register for the Webinar
- d) Organize the Webinar.

3.2. Best Practices

One of the Value Propositions of the IFMS is to promote professional standards and best practices across meteorological service providers and practitioners around the world. Best Practices are an important component of running an organization efficiently. Normally each Society creates such documents and spends considerable effort in doing so. The idea here is that all IFMS member Societies can help each other – especially by developing Common Documents related to Best Practices which can be tailored by each Society to meet its local requirements and governance. We are looking for a Chair and two to three members to run this committee. The duties of this Committee will include:

- a) Look for available Best Practices
- b) Get them approved by the IFMS Council
- c) Receive suggestions and think of creating new Best Practice items and details. For example, develop best practice for developing volunteers, develop best practice for raising funds for your organization.

3.3. Campaign for Membership

The IFMS would like to have all existing National Hydro-Met Societies (NHMSoc) to become member of IFMS. In addition, there are many countries which should have an NHMSoc but they do not have such a society. We are starting a campaign to convince the local National Hydro-Met Service to start such a society in its country. We have included a couple of articles on this issue in our Newsletter #2.



The typical tasks of the Chief Volunteer for the Membership team are to:

- a) Identify countries which have an NHMSoc but it is not a member of IFMS
- b) Send a letter from the IFMS President behalf
- c) Identify countries where there is no NHMSoc but should be one
- d) Send the material we have prepared for such countries to them
- e) With the assistance of IFMS pair them with societies in their region who are prepared to help such countries.

3.4. Fund Raising Campaign Coordinator

IFMS needs funds to progress to become a very strong organization for the betterment of the Global Weather Enterprise (GWE). We need funds for:

- a) Secretariat – with an Executive Director and an assistant
- b) Very essential travel of staff and Council Members
- c) Web site and its support
- d) To cover the travel cost of needy
- e) Other miscellaneous costs.

We are hoping that looking at the utility of the IFMS, and the help it can provide them in their initiative to strengthen the GWE, the WMO and the WBG will help us financially. However, we need additional funds. We need to define ways in which we could generate additional funds. We expect this Committee which will report to the VP Finance to do the following:

- I. Explore and define potential ways of financing IFMS
- II. Produce a document discussing different ways of financing IFMS
- III. IFMS Council will consider the suggested methods to finance IFMS and decide which ones to implement.
- IV. Make plan to implement selected items
- V. Help implement them.

3.5. Coordinating Website Updates

Currently, the IFMS Website is maintained by AMS for which we are grateful. We need to request updates and plan regular updates. Volunteers are required to coordinate this effort.

3.6. Coordinating “Collaboration”

One of the Value Propositions of the IFMS is to create “Collaboration” between member societies and also between members of these societies. For this we have created a “Collaboration” tab on our website. Those member societies or their members who are interested in collaborating with another society or its members can make a request by filling the provided form and submitting it via email address: ifms.collaboration@gmail.com. The Chair of this Committee will monitor this email address frequently and check whether any



collaboration request has been received. If yes, then a member of this Committee will be assigned to take the required action which means advertise this request on the IFMS Website and find interested parties.

3.7. Reviewers for Newsletter

We are creating an IFMS Newsletter Review Board which will consist of three members. One of these reviewers will be the Chief Reviewer who will coordinate the activities of the Review Board. The duties of this Review Board will be to solicit material from member societies, review the received material for the relevance of the subject matter to the activities of the IFMS and quality of text. Once the Newsletter has been formatted, review it before distribution.

3.8. Social Media usage by IFMS

One of the popular and effective ways of communication between all components of the IFMS (society to society, individual to society and individual to individual) is Social Media. The potential Social Media candidates for Professional Societies are Facebook, LinkedIn, Twitter, WhatsApp, Snapchat and Instagram.

We would like to have a Committee of volunteers to determine the best ways of using these Social Media and steps to implement them. It would be very useful if proposed volunteers have already implemented it for some organization.

4. Conclusions

The IFMS is basically a volunteer-based organization. In order to implement its Value Proposition, we need assistance of volunteers. We are requesting members of our member societies to offer their service for important tasks discussed in this document. In turn, we will recognize our best volunteers through rewards and publishing their names in our Newsletter.



ANNEX C: IFMS Value Proposition & Status of Implementation



www.ifms.org

International Forum of Meteorological Societies

Relevant: Valuable: Unique: Helping WMO/WBG to create a ‘Weather Ready Globe’.

Some envisioned Value Propositions of the IFMS include:

1. Collaborating on joint activities

Objective: *Collaboration between the National Hydro-Met Societies (NHMSocs) on joint activities, where appropriate, to advance the science and profession of meteorology.*

Implementation: We have provided the “Collaboration” Tab on our Website which interested parties, whether individuals or societies, can use for requesting collaboration. Please provide the information requested under that tab and send it to the following email address ifms.collaboration@gmail.com

We will then request the counterpart society or societies to send message to their members for any potential interested parties. We will also advertise the request on our website (www.ifms.org).

2. Establishing access to information channels

Objective: *To create meaningful communication channels to unite the member societies and provide a means of distributing information and creating discussion groups. Examples: Website, Newsletter, Social Media, etc.*

Implementation: Our Website (www.ifms.org) provides various pieces of information (e.g. Newsletter, Reports, Status Reports, etc.) and infrastructure for Collaboration and Best Practices. Our member societies and partners can request us to carry information about their events or interesting documentation for a wide circulation by sending us a request on ifms.website@gmail.com. We have started producing Newsletter through which member Societies can communicate information about their events, ideas, society and technical articles. Any society can also reprint their best article from their Journal to provide it wider circulation.

We are currently implementing Facebook, Twitter, LinkedIn and WhatsApp. We should have it going within the next six months. **As per our IGM5, we will constitute a Committee to investigate best means of communication and how to implement them.**



3. Outreach to developing Societies

Objective: *Helping Developing Societies and creating new ones to address issues concerning global warming and create a “weather ready globe”.*

Implementation: This Value Proposition needs to use Collaboration mechanism. Societies needing assistance can send a message through this mechanism and we will arrange appropriate (non-financial) help. **One of the important activities under this item is provision of training and information. We are planning to use Webinars which will be held regularly in the near future. This will be our main mechanism for training till we can find funds for other means of training.**

In addition, we are starting to encourage various countries which do not have an NHMSoc but should have one to try and start one. We have written to a couple of NHMS (National Hydro-Met Services) to start an NHMSoc in their country. We will organize help through neighboring countries. For example, Bangla Desh, Sri Lanka, Pakistan do not have NHMSoc but should have one. IMS (India Meteorological Society) is prepared to help them create one. **As per IGM5 decision, Harinder has sent a letter to IGM5 participants and IFMS-Council-2018 to be used for encouraging NHMS to create new societies. Harinder expects Regional Members to coordinate this activity by forming their own Regional Committees for this purpose.**

4. Collaboration between IFMS and WMO and related international groupings in areas of mutual interest

a) Gaining support from WMO and International Organizations such as the World Bank Group (WBG), etc.

Objective: *To create a meaningful relationship with WMO as well as WBG to create a win-win situation.*

Implementation: In June 2018 Meeting, WMO EC-70 approved IFMS request for an MOU between WMO and IFMS for cooperation between the two entities. As per IGM5 decision we were supposed to inform WMO SG about our new Council and make a request for a meeting between him and IFMS President to discuss this matter and determine how WMO and IFMS can help each other. **Harinder has already sent such letter to WMO-SG.** We are already supporting their GWE Initiative of strengthening collaboration between Public, Private and Academic (PPA) sectors. The MOU is expected to result in much more collaboration.

b) Assist WMO/WBG to promote PPA Sector Partnerships

Objective: *Help WMO and WBG create strong collaboration between Public/Private/Academic (PPA) sectors to create bigger value by optimal use of resources and strengthening Global Weather Enterprise (GWE).*

Implementation: This is being supported through our work and publications on GWE-PPA Collaboration. Any assistance requested by WMO/WBG/HMEI will be provided as per availability of resources. Some interesting Reports are available on our Website. **The first meeting which we have already requested between the WMO-SG and the IFMS-President**



will be the starting point for implementing collaboration between the two organizations.

c) Aligning IFMS Plans with WMO strategic plans/priorities to increase cooperation

Objective: *To strengthen collaboration between WMO and IFMS for societal benefit*

Implementation: This is an idea to enhance collaboration between WMO and IFMS and will be explored more fully during the aforesaid meeting and in the subsequent meetings.

5. Creating Global Context/Collaboration with – EMS, FLISMET, EAC, etc.

Objective: *Creating a global context for the varied activities of Met Societies and to collaborate with Regional Associations of Met Societies, such as the European Met Society (EMS), Iberian and Latin American Federation of Met Societies (FLISMET), African Regional Economic Cooperation (REC) groupings, etc., is a core activity for IFMS.*

Implementation: This activity is meant to leverage the strengths of these societies to achieve IFMS objectives. Certain activities are more regional and can be best handled by Regional Hydro-Met Societies. **A more detailed strategy will be developed by a Committee specifically constituted for this purpose. We have defined an Action Item to constitute such a Committee.**

6. Assistance in Accreditation/Certification and Training (ACT)

Objective: *Assisting in Accreditation/Certification and Training (ACT) to help interested Societies to implement such programs or cooperate with each other to have a Joint Accreditation and Training Program e.g. through Regional Societies.*

Implementation: We organized a Webinar given by Liz Bentley from the RMetS in collaboration with Keith Seitter from AMS in July 2018. **Any society wishing to start such a program in its country can request assistance through Collaboration mechanism provided on the IFMS Website.** We have a number of people who can help in this activity.

7. Promoting the contributions of individuals

Objective: *Promoting the contributions of individuals within the meteorological community and beyond by highlighting excellence in science, technology, organizational development, excellence in providing services, etc.*

Implementation: The IFMS is an International Society and we believe that as IFMS achieves its basic goals and collaborates with WMO, WBG and HMEI, our awards and recognitions will get the prestige and recognition we need to attach to these awards. This mechanism is also considered to be important for getting involvement of more people. With the assistance of WMO and HMEI, we should plan for a Conference like WWOSC-2014 held in Montreal. If not every second year, at least, it can be held every third year. IFMS Awards should be announced every second year. Most likely the IFMS GM6 in Boston concurrently with AMSs Centennial Celebration will be a good time to start implementing this Value Proposition.



8. Assistance to Industry through local Met Society to create Infrastructure & PPA Partnerships

Objective: *Assistance to Industry (especially international) through local Met Society to increase collaboration and assistance in connecting with requirements of that country to develop required infrastructure and support WMO/WBG Initiative to strengthen GWE through strong collaboration between PPA Sectors through NHMSoc assistance.*

Implementation: This Value Proposition will develop with the mission of “Strengthening GWE by increasing collaboration between PPA Sectors.” If a local NHMSoc can provide any assistance to Private or Academic sector even from outside the country, it should for strengthening GWE. Our participation in InterMet 2018 was another example of creating relationship with the private sector.



ANNEX D: IFMS FINANCING APPROACHES



*By Keith Seitter: VP-Finance – IFMS, and
Harinder Ahluwalia – President - IFMS*

1. Introduction

In order to grow to be useful and effective, IFMS needs following ingredients:

1. Effective Council
2. Financing
3. Volunteers and
4. Secretariat with an Executive Director and a support person.

This document deals with financing issue.

2. Need for Finances

IFMS needs finances for the following

1. Operation of the Secretariat and some travel expenses of the Secretariat personnel,
2. Publication of the Newsletter,
3. Maintenance of Website
4. Travel expenses of delegates of LDCs who cannot afford to pay for the travel for their participation in biennial Meetings of the IFMS.
5. Some travel expenses for the officers of the IFMS.

3. The current situation

Up to now, IFMS has depended on volunteer service from individuals in its member societies, as well as in-kind and direct support from some specific member societies. For IFMS Global Meetings, a host society has provided meeting space as a part of its annual meeting, staff time for planning and logistics, food and beverage, and other forms of support to ensure a successful IFMS meeting. That in-kind support of staff time, as well as direct support for food/beverage and other direct expenses associated with those meetings is tangible and significant (though it may be partially offset by additional registrations to the host society's annual meeting). In addition, the travel of member society representatives to the Global Meetings has mostly been borne by the member societies (and in some cases by the representatives themselves).



The American Meteorological Society has provided additional support for IFMS, both in-kind and direct, in the form of maintaining the IFMS website, covering the cost of conference calls, and funding the legal and registration fees for incorporating IFMS as a 501(c)(3) charitable nonprofit organization in the United States.

4. Potential additional source of funding

One can imagine a variety of possible new revenue sources that could provide support for IFMS operations. These include:

1. **Dues from member societies.** In discussions on this issue, it has been clear that very few societies see this as a viable approach, because all member societies operate at very nearly a zero margin and this would constrain other society activities.
2. **Registration fees for Global Meetings.** This is difficult to implement in a meaningful way, and with IFMS attendees at a Global Meeting numbering in the dozens, a modest and reasonable registration fee would generate very little revenue, while at the same placing additional financial barriers on participation from members in the developing world.
3. **Corporate support through sponsorships.** This is an important component of the annual meetings of some of the member societies, but it is difficult to imagine corporations seeing a return on investment in sponsoring the IFMS Global Meeting given its small size.
4. **Individual donations.** Now that IFMS is a 501(c)(3) nonprofit, it can accept charitable donations. Individuals who care about international cooperation in science might be persuaded to donate toward travel grants that would allow participation at IFMS meetings by scientists from the developing world. [In a practical sense, it might be more effective for member societies that have international travel grant programs to target some of those grants toward scientists who could participate in IFMS meetings. This would leverage existing successful programs and perhaps grow them in the member societies, as opposed to establishing a program within IFMS.]
5. **Grants.** This is perhaps the approach that has the highest probability of success in the near term (and, in fact, has been successful in the past for IFMS). There are three distinct types of grants one might pursue:
 - a) **Travel grants.** NSF and WMO have provided travel support for participants from the developing world to attend IFMS meetings in the past and might be expected to do so in the future as part of their support for international capacity building. [There might be more success in having a member society with a proven track record, and with an established infrastructure apply for those travel grants, such as AMS did for the first Global Meeting.]



-
- b) **Project support grants.** IFMS could propose specific projects and submit proposals for grant funding to appropriate agencies.
 - c) **Philanthropic grants.** There are philanthropic foundations that provide grants to support nonprofits that are doing good work. These grants sometimes have very few constraints and can be used to cover normal operational expenses that help ensure the success of the grantee organization. In general, the grantee organization must have ongoing projects that show results before a foundation will consider such a grant, but there may be foundations that would see promise in IFMS.

At this time, and given the current level of activity in IFMS, it seems likely that the organization will need to continue to depend very heavily on volunteer support and targeted levels of in-kind and direct support from some of the member societies — as it has for the past decade. Work should begin soon toward securing travel support for developing world participation in Global Meeting 6 (it is too late to do more for IGM5 in Budapest). As noted above, there are a few paths toward that support and all should be pursued with the goal of providing as many travel grants as possible.

As IFMS continues to mature and develop clearer mission objectives, proposals can be developed for capacity building projects and funding for those can be pursued through appropriate agencies. This would still depend very heavily on volunteer efforts, though if such grants were awarded, they could include funding for overhead that might provide modest funding for some paid staff support to administer the grant and project.

Seeking grant funding seems the most reasonable first step toward building financial stability for IFMS. It offers opportunities to show results with initial small, focused, grant activity that can be leveraged into more significant travel or project grant funding that includes overhead expenses to fund a modest secretariat infrastructure for IFMS.

5. Other Potential Sources of Funding IFMS Needs to Explore

In addition to the above resources, IFMS should contact

Donor Agencies: Since IFMS is an organization working for the betterment of the world using mostly volunteer services, we must be able to make a Value Proposition for various Donor organizations to invest their money in IFMS. Because of the work being done mostly by volunteers, the benefit of small investment by these agencies will produce a much bigger benefit. Some of these organizations are:

1. World Bank,
2. WMO,



-
3. National Aid Agencies of developed countries,
 4. Benevolent organizations/trusts set up by people like Warren Buffet, Bill Gates, or organizations like Google, etc.
 5. Crowd Funding.
 6. We need to seriously explore these sources for Financial Assistance.

6. Our Approach to Develop Financing Resources

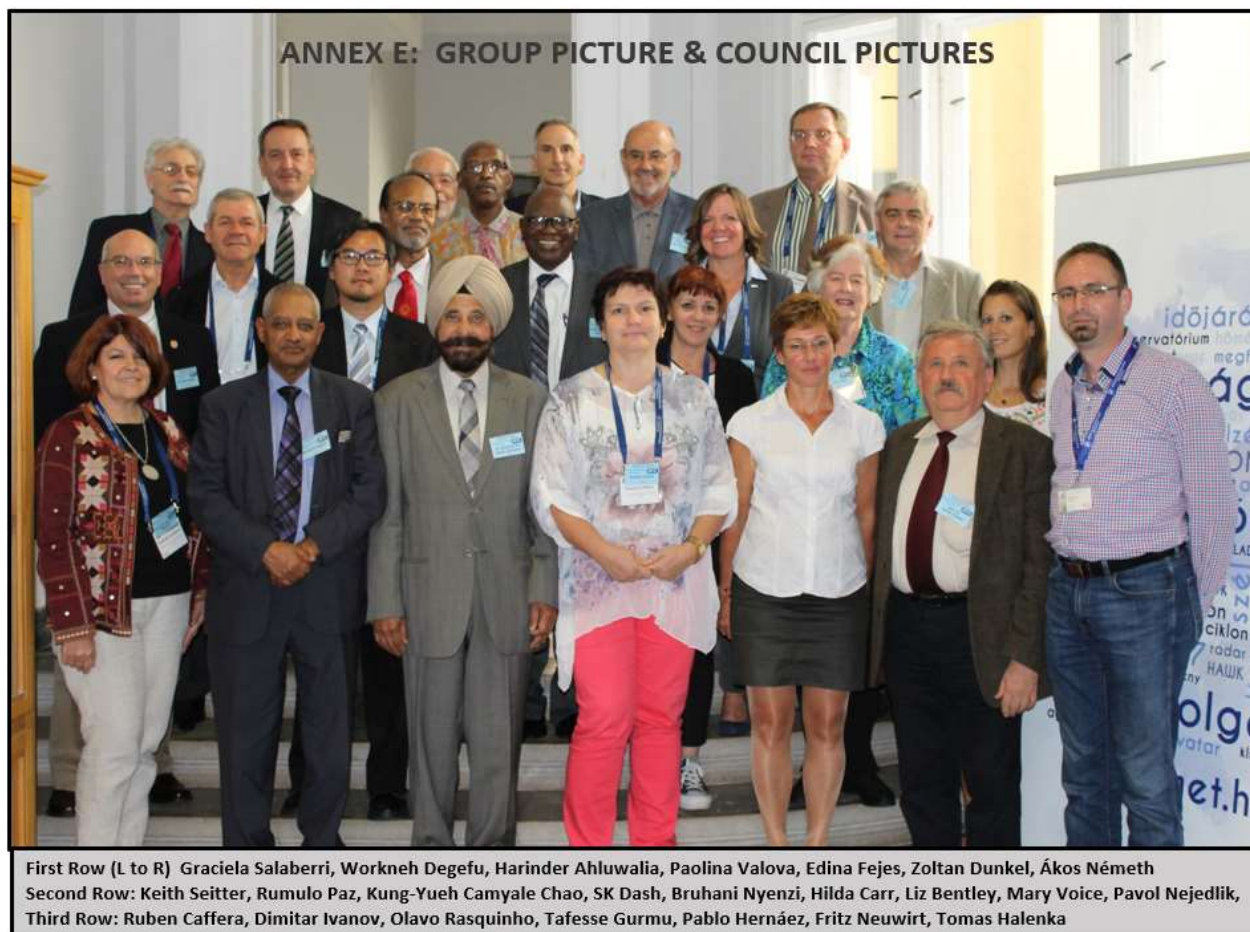
In order to explore in detail the potential sources of funding and taking action on .decided course of action, we plan to create an IFMS Financing Committee under the guidance of VP-Finance.

1. This Committee will analyze the sources listed above.
2. It will prepare the list of sources to be tapped according to their probability of success
3. It will decide and prepare material to be used to run the campaign for each source
4. It will send letters and compile responses
5. It will make a schedule of activities for these activities
6. Brief the Council about its progress at each Council Meeting.

7. Conclusion

It is imperative that we create this committee immediately and it gets to work and execute the above activities to organize financing.

ANNEX E: GROUP PICTURES & COUNCIL PICTURES



SECOND IFMS COUNCIL – 2018-2021



Dr. Harinder Ahluwalia (CMOS)
President



Dr. Keith Seitter (AMS)
Vice-President - Finance



1
Dr. Buruhani Nyenzi (TMS)
Vice-President - Administration



2
Dr. Yongyun Hu (CMS)
General Secretary



Mr. K.Y.C. Chao (MSCT)
Treasurer



3
Mr. Workneh Degefu (EtMS)
Council Member Region I



4
Prof. Sushil Kumar Dash (IMS)
Council Member Region II



5
Elizabeth Castaneda (CAM)
Council Member Region III



Dr. John (Jack) Hayes (AMS)
Council Member Region IV



6
Dr. Michael Coughlan (AMOS)
Council Member Region V



Prof. Liz Bentley (RMetS)
Council Member Region VI

6 New Members

FIRST IFMS COUNCIL – 2015-2018



Dr. Harinder Ahluwalia (CMOS)
President



Dr. Keith Seitter (AMS)
Vice-President - Finance



Dr. Zoltan Dunkel (MMT)
Vice-President - Administration



Mr. Kung-Yueh C. Chao (MSCT)
General Secretary



Mr. John Mungai (EAMS)
Council Member Region I



AVM Ajit Tyagi (IMS)
Council Member Region II



Dr. Eduardo Agosta (CAM)
Council Member Region III



Dr. John (Jack) Hayes (AMS)
Council Member Region IV



Dr. Todd Lane (AMOS)
Council Member Region V



Prof. Liz Bentley (RMets)
Council Member Region VI

