

Minutes of IAMG Council Meeting held in PD Hahn Building, North Lane, Upper Campus, University of Cape Town on Sunday, August 28th: 2:00 – 5:00 pm

Voting IAMG Council Members in attendance: Qiuming Cheng, President; Jennifer McKinley, Executive Vice President; David Collins, Treasurer; Frits Agterberg, Secretary General; Vera Pawlowsky-Glahn, Past President; Raimon Tolosana-Delgado, Vice President; Yongqing Chen, Council Member; June Hill, Council Member; Christien Thiart, Special IGC Councilor.

President Qiuming opened the meeting welcoming Council Members, newly elected Council Members, and guests. Thanks were extended to Christien Thiart for organizing the IAMG events at the 35th International Geological Congress held in Cape Town South Africa. He also thanked all those who had submitted annual reports that will be posted on the IAMG Website after the meeting. The following agenda was approved:

1. Approval of Agenda
2. President's report (Qiuming Cheng)
3. Executive Vice President's report (Jennifer McKinley)
4. Secretary General's report (Frits Agterberg)
5. Treasurer's report (David Collins) (**needs motion**)
6. Award's Committee (Frits Agterberg representing Jack Schuenemeyer)
7. Lectures Committee (Jennifer McKinley)
8. Meetings Committee (Ricardo Olea)
9. IAMG2017 Progress Report (June Hill)
10. Outreach Committee (Frits Agterberg)
11. Publications Committee (Eric Grunsky)
12. Discussion of changes of administering the Journal- named student/postdoc research grants
13. Student Affairs Committee (Helmut Schaeben)
14. Discussion of funding for IAMG Student Chapter Nancy
15. Golden Anniversary book: "Fifty Years of IAMG" (B.S. Daya Sagar)
16. Earth Science Matters (Ed de Mulder)
17. Summary of annual reports to be formally presented at General Assembly (Qiuming Cheng)
18. New Business.

2. President's report: Qiuming Cheng summarized the many activities of the IAMG during the past year and also during the previous three years. A number of slides were shown including pictures of members attending IAMG annual meetings and meetings co-sponsored by the IAMG. Membership trends and finances were graphically illustrated. Our approximately 800 members include relatively many students and young scientists. Successive budgets of the IAMG have been kept balanced. IAMG2015 that was held in Freiberg was the first annual meeting for which the IAMG itself was financially responsible; it was very successful and made a healthy profit as well. Like all other annual reports, the President's report had already been e-mailed to members of the extended IAMG Council before the Council Meeting.

3/4. Executive Vice President's report and Secretary General's reports: Jennifer McKinley and Frits Agterberg summarized their annual reports.

5. Treasurer's report: David Collins summarized his report by showing a number of slides. The report consists of five parts. The version of the fifth part that had been distributed by e-mail the week before was an initial draft. It contained an amount of US \$60,000 for royalty income from Computers & Geosciences for 2017 which was changed in a revised draft to US \$61,750.00 because the existing Elsevier contract contains a clause stipulating an annual 2.5% C&G royalty increase beginning from the base of US \$70,000 in 2017. The resulting proposed 2017 Operating Budget needed Council

approval. Modifications made after further discussion were as follows: Under EXPENSES, "Contract Labor (IAMG Office)" will be increased from US \$15,400.00 in 2016 to US \$16,000.00 in 2017. Gerald van den Boogaart pointed out that Expenses for 2017 should also include seed money for IAMG2018, the Golden Anniversary to be held in Olomouc, Czech Republic. An amount of US \$6,000 was proposed for this purpose. It was decided to balance this US \$6,000.00 expense and US \$600 additional for Contract Labor by increasing "Cash from Money Market Account" under INCOME. Consequently, "Cash from Money Market Account" for 2017 will be US \$44,855.00 instead of US \$38,255.00 in the revised draft. With these modifications, the revised budget for 2017 was subjected to voting and unanimously approved by the nine Voting Council Members in attendance.

Motion: The 2017 Operating Budget prepared by the Treasurer is approved after incorporation of final 2016 IAMG Council Meeting inputs.

6. Awards Committee report: On behalf of Jack Schuenemeyer who chairs this Committee, Frits Agterberg emphasized that the deadline for submitting nominations for IAMG Award winners has been changed to October 31th. No extensions will be granted. The Awards Committee will make its decisions known by November 30th. During the discussion Raimon Tolosana-Delgado suggested that in future these deadlines may be changed even further by making them three months sooner.

7/8 Lectures Committee and Meetings Committee reports: Jennifer McKinley, Chair of Meetings Committee; and Ricardo Olea, Chair of Meetings Committee, summarized their reports.

9. IAMG2017 Progress Report: June Hill who is a Member of the IAMG2017 Organizing Committee presented this progress report and distributed printed information cards to participants in the meeting.

10/11. Outreach Committee and Publications Committee: Frits Agterberg, Chair of Outreach Committee; and Eric Grunsky, Chair of Publications Committee, summarized their reports. Eric's report also contains the annual reports of the Editors-in-Chief of our three journals; and the IAMG Newsletter and Website Editor's annual report. Harald is going to retire from the latter position. Eric and David suggested that the IAMG Newsletter and Website Editor position should be advertized indicating that IAMG would refund any hardware, software and travel costs required for carrying out the duties for this important position.

12. Discussion of changes of administering the Journal- named student/postdoc research grants: Frits Agterberg pointed out that existing procedures are considered to be too cumbersome to be fully satisfactory. This year, winners for these three types for grants were not selected in time for their names to be made known at our annual meeting. The selection processes will be completed in the near future. Paul Cumine, our Elsevier Journal Editor for Computers & Geosciences has indicated that, in future, he would be happy if Elsevier can make the US \$ 10,000.00 C&G research grant money readily available to the IAMG which, annually, would assume full responsibility for selecting the winners. In the past winner certificates were co-signed by Elsevier and Springer Journal Editors and this practice should be continued. In future, Journal-named research grant administration should be administered by the IAMG Student Affairs Committee, which may appoint subcommittees for carrying out these tasks.

13. Student Affairs Committee: Helmut Schaeben, Chair of Student Affairs Committee presented his progress report. A problem is that several Student Chapters have not submitted the required annual reports and have not applied for continuation of funding by IAMG for their chapters.

14. Discussion of funding for IAMG Student Chapter Nancy. It was decided that the funding request by this Student Chapter should be granted.

15. Golden Anniversary book: "Fifty Years of IAMG". B.S. Daya Sagar, principal editor of this golden anniversary book, presented a progress report. All previous IAMG award winners as well as Founding Members and Honorary Life Members have been invited to contribute chapters. To date 47 of them have accepted their invitations. More will probably follow. The book will be published by Springer and is estimated to be 900 pages in length. It should be ready at the time of IAMG2018 in Olomouc. The book will be co-edited by Qiuming Cheng and Frits Agterberg. Raimon Tolosana-Delgado suggested that authors should be allotted more time for preparing their manuscripts. Possible formats for this book were discussed. Helmut Schaeben mentioned that Springer Heidelberg previously has published a Handbook of Geomathematics (Willi Freeden, M. Zuhair Nashed and Th. Sonar, Eds.), which is now in its second printing. The authors had to follow strict rules for preparing their contributions. There was discussion of various possible ways in which the book could be made available to IAMG members at a greatly reduced price or for free.

16. Earth Science Matters (ESM): Eduardo de Mulder summarized the ESM 2015 Annual Report to the International Union of Geological Geosciences (IUGS), which like the IAMG and the Young Earth Scientists (YES) Network, is a Scientific International Partner of ESM. Ed explained that ESM is happy to be closely associated with IAMG. Their main activity consists of outreach to the broader geoscience community which contains many geologists with little understanding of how more use of mathematics and statistics can be useful to them. Two topics of research by IAMG members selected were compositional data analysis and singularity analysis. For the latter topic Ed, with three co-authors, has recently published "New and game-changing developments in geochemical exploration". It describes how new types of anomalies can be obtained by singularity analysis. It was published as a Forum in Episodes which is the journal intended for the over one million geoscientists in the world. Ed pointed out that ESM would like to become involved with outreach activities related with our Golden Anniversary to be celebrated during IAMG2008 in the Czech Republic. IAMG and ESM are both closely connected to YES in order to increase involvement of young earth scientists.

17. Summary of annual reports to be formally presented at General Assembly: A preliminary agenda for the IAMG General Agenda to be held on the next day (Monday, August 29th) had been distributed to participants in IAMG the Council Meeting for consideration and possible additions to the agenda.

18. New business: Vera Pawlowsky-Glahn pointed out that the newly established International CoDa Association is now "legal" and will discuss how it can become formally affiliated with the IAMG. Jan Harff announced the publication of a new Encyclopedia of Marine Geosciences (Jan Harff, Martin Meshede, Sven Petersen and Jörn Thiede, Eds.). All of us are invited to come to the Meet & Greet for this book at the Springer booth D05 on August 31st, 2016, 3:30 – 4:30 pm. Ute Herzfeld who is in charge of the IAMG booth at the 35th IGC distributed a sheet with time slots asking people to volunteer for our IAMG booth (A01) duty during the next five days. In general, Council meeting participants were satisfied with the scope of subjects covered under topics 1-17 and President Qiuming Cheng closed the meeting urging participants to come to the IAMG keynote lectures and IAMG General Assembly to be held the next day.

Minutes of IAMG General Assembly held in Ballroom East, Cape Town, on Monday, August 29th: 6:00 – 8:00 pm

President Qiuming was advised not to attend the IAMG General Assembly because it coincides with the reception of the International Union of Geological Sciences (IUGS) for which he has been nominated as one of two candidates for the 2016-2020 President position with the election by IUGS Voting Members to take place later this week. Beforehand, both candidates for this important administrative position would have to answer questions from the Voting Members about what in their view are the best future IUGS developments. The IAMG, as an IUGS affiliated organization had proposed Qiuming as a candidate for the IUGS Presidency. (We are happy that on Friday, September 1st, 2016 Qiuming won the election and became the new IUGS President.) In his absence our General Assembly was opened and chaired (first as acting President and later as President herself) by Executive Vice President Jennifer McKinley who welcomed those in attendance. The agenda was as follows:

- 1 Introduction by the Chair (Jenny McKinley)
- 2 Brief report about IAMG Council meeting with highlights (Frits Agterberg)
- 3 Finance (David Collins)
- 4 Presentation on publication of Computers & Geosciences (Paul Cumine, Elsevier journal editor)
- 5 IAMG2017 (Oktay Erten)
- 6 IAMG2018 (Karel Hron)
- 7 Future annual conferences (Ricardo Olea)
- 8 Ratification of new IAMG Council election results (Frits Agterberg)
- 9 New President's remarks (Jennifer McKinley)
- 10 New business

- Introduction by the Chair: Jenny McKinley opened the meeting welcoming the approximately forty participants. She thanked the many IAMG members who have given a hand in making our 35th IGC activities a great success.
- Brief report about IAMG Council meeting with highlights: Frits Agterberg showed slides about status and activities of the IAMG during the past year and earlier. These slides had been prepared and shown by Qiuming Cheng during his President's report at the IAMG Council meeting on Sunday, August 28th.
- Finance: Illustrated with slides, David Collins discussed the IAMG's financial situation, which is very good and continues to improve significantly. His full financial report is to be posted on the IAMG website.
- Presentation on publication of Computers & Geosciences: Eric Grunsky, Chair of the IAMG Publications Committee asked Paul Cumine, Elsevier Journal Editor, to provide a detailed report on publication of Computers & Geosciences. In numbers of articles and downloads this is one of Elsevier's most successful scientific journals. The IAMG has been receiving and will continue to receive significant royalties for this journal. Its citation index continues to go up.

5/6. IAMG2017 and IAMG2018: Oktay Erten and Karel Hron, who chair the Organizing Committees for these two meetings, presented overviews of preparation in progress for their respective IAMG annual meetings that both have websites connected to the IAMG website.

7. Future annual conferences: Ricardo Olea, Chair of the IAMG Meetings Committee briefly described how and when proposals for annual meetings should be submitted.

Sanjay Srinivasan has firmly indicated that he wishes to organize IAMG2019 at the Pennsylvania State University. Other proposals, however, should be welcomed as well.

8. Ratification of new IAMG Council election results: Jenny McKinley asked Frits Agterberg to announce the quadrennial change of government and to introduce the new IAMG Council. IAMG election procedures were explained in IAMG Newsletter 91 (December 2015) and the election results given in IAMG Newsletter 92 (June 2016). It is customary that these results are ratified at the quadrennial ordinary General Assembly. Frits asked participants if they approve of the new Council. Numerous hands were raised. He then asked if anybody in the room had any objections. No hands were raised and the new Council was duly installed.

9. New President's remarks: IAMG President Jennifer McKinley thanked the previous Council for their many contributions and expressed the hope that she and her Council will continue to maintain and expand the IAMG's activities.

10. New business: In general, Council meeting participants were satisfied with the scope of subjects covered under topics 1-17 and President Jennifer McKinley closed the meeting.

IAMG ANNUAL REPORTS FOR 2016

President's report

Qiuming Cheng

Date: August 20, 2016

Toronto

Reg. Report (August 2015 – September, 2016)

In a week's time we will have our joint conference at the 35th IGC during which we will hold our Council meeting and General Assembly in Cape Town. As we all know, the election results for the new Council of IAMG will be ratified at this GA. I would like to congratulate once again the new Council Members elected by our IAMG members. As usual I cannot forget to acknowledge the IAMG executives, Council members and many other IAMG members who have been so dedicated and engaged in IAMG business for the past year. Our Committee Chairs must be thanked for their hard work and proactive involvement in IAMG management. Their reports are available in the report package and will be available on the IAMG website for review. We have maintained an open, transparent and democratic process within Council for discussion and decision-making regarding IAMG issues. This report provides a summary of the main activities involving Qiuming and business dealt with by the Council over the last year. Some of the activities have already been mentioned in the last two issues of our Newsletter.

1. September 5-13, 2015: The IAMG annual meeting was successfully held in Freiberg. The main activities at the conference were introduced in Newsletter Issue 91. About 300 participants from 34 countries were attending this conference and about 35 parallel sessions and seven plenary presentations were held. Among the many highlights of the conference was a celebration of the 250th anniversary of our co-organizer: Technical University Bergakademie Freiberg (TUBAF), the oldest university of mining science and technology in the world. Special sessions were held such as commemorating William Smith: 200 years of Geomodeling. Two parallel activities of presentation and exhibition of 3D software and information technology were organized on the Day of Geological Surveys. I thank all those who participated in the event and those who were involved in its organization. Financially the conference was very successful as well.
2. November 1, 2015: A president letter was sent to all IAMG members for membership renewal.
3. November 16, 2015 & May 30 2016: Two president forums were submitted and published in IAMG Newsletter Issues 91 and 92.
4. January 17-19, 2016: Qiuming attended the 70th IUGS Executive Meeting along with representatives from several international organizations including the ICSU, IUGG and IGC36 in the Stone Forest hotel in Yunnan, China. At this meeting Qiuming briefly reported to the IUGS Executive Meeting on the main activities of IAMG in 2015 and some highlights of scientific progress in MG. A few things were brought to the IAMG EX attention: Nomination of candidates for the IUGS new council for 2016-2020; IAMG was encouraged to put forward names for IUGS nomination; IUGS encourages broad collaboration on the project Resourcing Future Generation (RFG). Qiuming and several members from IAMG who are involved in mineral resources assessments have submitted a research proposal that was approved by RFG for \$2000US for supporting quantitative assessment of buried mineral resources in covered regions. Some suggestions about the possibility to organize training short courses before or after the 35th IGC and about joint activities between YES and IAMG were also discussed. A YES and IAMG Joint session of IGC has been implemented with Dr. Wenlei Wang and others from YES are co-conveners. Wenlei Wang was also nominated and elected as Academic Vice President of YES for 2016-2018. Some activities are jointly organized by Wenlei and the YES EC at the 35th IGC. Qiuming has discussed with

the organizers of 35th IGC, interim IGC 2018 and 36th IGC about our joint meeting and other activities at these meetings. Proposals for joint sessions to be organized at RFG2018 have been prepared. Eric coordinates matters concerned with RFG2018.

5. April 17-20, 2016: Qiuming, Frits and Professor Eduardo de Mulder co-convened a session on multifractal modeling and local singularity analysis in mineral exploration and environment assessments at the European Geoscience Union (EGU) conference held in Vienna. This session was convened for the second time co-sponsored by Nonlinear Processes in Geophysics (NP), a division of EGU and IAMG. Due to the research proposal (see 6) to be prepared at that time, Qiuming had to cancel his trip to EGU, and Frits and Ed chaired the session. A meeting report was published in NL92 and a special issue is in the stage of *call for papers* in the Journal of Geochemical Exploration for papers presented in the session.
6. Over the past few months, Qiuming and other 83 researchers from 18 organizations in China have developed a research proposal and been awarded 20 million RMB for a major R&D program by the Chinese Ministry of Science and Technology with 10 million RMB contributions from mining companies for conducting quantitative resources assessment of deeply buried mineral resources. The project participants include 6 universities, 6 research institutes, 3 provincial geological surveys and 3 mining companies. Most of the researchers (Chaochun Zhang, Song Xieyan, Yongqing Chen, Qinglin Xia, Yongzhang Zhou, Xiao Keyan, Renguang Zuo, Wenlei Wang, Jie Zhao, Shuyun Xie and Deyi Xu, etc.) are IAMG members in China. This project not only provides opportunities for cross-disciplinary collaboration for convergent research but also increases the visibility of MG in China. A large number of graduate students will be trained during the course of the project.
7. As shown in the Treasurer's Report, this past year IAMG maintained a balanced budget and implemented all main tasks as planned in the budget. The budget for 2017 is proposed for discussion and approval during the Council meeting, especially for receiving inputs from the new Council. The details can be found in the Treasurer's report. A significant new item in the budget for 2016 was budgeting for the IAMG Annual Conference IAMG2015. IAMG2015 was the first conference IAMG have taken the full responsibility for financing annual conferences. The actual balance shows positive return of about 45K\$. Congratulations and big thanks should be given to all those who have contributed to the organization of this conference, particularly to the local organizing committee of IAMG-2015, co-chaired by Professors Helmut Schaeben, Gerald van den Boogaart, and Raimon Tolosana-Delgado, the Meetings Committee chaired by Ricardo Olea and the many others who were involved. Special thanks should be given to Dr. David Collins, our Treasurer, and Mrs. Regina van den Boogaart, IAMG Office Manager, who have put in extra efforts to work closely with the conference organizers in dealing with the logistics of the conference since this year it is the first time that IAMG offers our annual conference while keeping full financial responsibility itself.
8. The programs for the 35th IGC are well coordinated. Beside technical sessions, all plenary presentations as well as a number of business meetings have been scheduled during the congress including the Council Meeting to be held on August 28 in the afternoon and the General Assembly on August 29. Various awards will be presented and celebrated at the conference. The Meetings Committee (MC) and especially our IGC special Councilor, Professor Christien Thiart, has performed a tremendous amount of work for coordinating and organizing the programs at 35th IGC.
9. The Meetings Committee (MC) chaired by Ricardo Olea has informed the EC that the preparations for IAMG2017 are going well and the first brochure has been distributed. Congratulations and thanks are due to the local organizers Oktay Erten (MEA-Curtin University), Ute Mueller (Edith Cowan University), and June Hill

- (CSIRO). June is going to provide an update at the Council Meeting and promotional materials will be distributed at the congress.
- 10.** In 2018, IAMG will celebrate the 50th anniversary of its founding in Prague (Czech Republic). The Council has approved during its last Council meeting that the main scientific conference will be held in Olomouc, 2-8 September, 2018. The Organizing Committee is chaired by Karel Hron.
 - 11.** The IAMG is co-sponsoring the 7th International CoDa Workshop to be held in Siena, Italy, June 5-9, 2017. This meeting is co-organized by Antonella Buccianti and Josep Martín-Fernández. The IAMG will also co-sponsor geoENV2018 to be held in Belfast, Northern Ireland, July 3-7, 2018.
 - 12.** Student (young scientists) Grants and Student Chapters. The details of activities of Student Affairs Committee (SC) can be found in Helmut Schaeben's report. The efforts that IAMG has taken to support students may have contributed to the nice increase in participation of younger delegates at our IAMG meetings as Harald mentioned in NL 92. Harald further suggests that some ways should be sought to retain student members into regular membership once they have graduated.
 - 13.** The graph published in NL 92 by Harald indicates a steady increase of IAMG membership over the last several years reaching the historical high of over 800 memberships. This depicts a healthy growth of our association in spite of the effect of global low prices of energy and metal products. Of course, the membership is still below the expectation of over 1000 memberships as the current council had hoped for four years ago. The increasing trend may stay up further with the efforts by the new Council with support from each and every one of our members.

14. IAMG awards and Lecturers

Professor Peter Dowd (Australia) has been selected as the 31th winner of the William Christian Krumbein Medal and Professor Juan José "Juanjo" Egozcue (Spain) is the recipient of the 2016 John Cedric Griffiths Teaching Award. Both winners will deliver their plenary lectures at the 35th IGC. I extend my sincere gratitude to the award winners and Awards Committee chaired by Professor John H. (Jack) Schuenemeyer and all IAMG members who have made nominations of candidates in the awards competition.

I would like to thank the Lectures Committee chaired by Jennifer McKinley, IAMG Executive Vice President, for selecting the 2017 Distinguished Lecturer (DL) and the 2016 Georges Matheron Lecturer (ML). I congratulate Professor Clayton Deutsch (Canada) for having been selected as our 2017 DL and Dr. Jeffrey Yarus (USA) as our 2016 ML. Professor Clayton Deutsch will make a plenary presentation at the coming Geostat2016 in Valencia, Spain, which is being co-sponsored by the IAMG, and Dr. Jeffrey Yarus will deliver his plenary lecture at the 35th IGC.

15. IAMG Website and Newsletters

Thanks to Harald's hard work, two excellent Newsletters were produced and mailed out to our members. The Newsletters are also available for downloading from the IAMG website. Thanks to those who contributed material for the newsletters. Harald has expressed his desire of retiring as EIC of the NL. Volunteers for this position are being sought. Please let us know if you are interested. Special thanks are due to Harald for his longtime dedicated service to the IAMG!

16. Outreach

Outreach in collaboration with Earth Science Matters on "Compositional Data Analysis" and on "Local Singularity Analysis" is going well. A short introductory paper about local singularity analysis was prepared by Ed de Mulder and other three authors, and has been published as a Forum in EPISODES, the official journal of IUGS. The title of this contribution is "New and game-changing developments in geochemical exploration". Hopefully it will promote interest in use of this powerful new method within the geoscience community at large.

17. Journals and Books

Our three journals (MG, C&G and NRR) are doing very well, in quantity, quality, and citations. IF for M&G (IF = 1.76) and C&G (IF=2.474) and NRR still needs more efforts to become qualified for SCI. More details on the journals can be found in the EICs' reports. Professor Jef Caers has stepped down as Co-Editor-in-Chief of Computers & Geosciences. An excellent successor, Professor Grégoire Mariéthoz, University of Lausanne, Switzerland, has taken over Jef's position. Congratulations on the successful transition. Thanks to both Jef and Grégoire! Special thanks are due to Jef who took over the editorship from Eric Grunsky in 2011 and since 2013 has shared it as Co-Editor-in-Chief first with Michael Piasecki and then with Edzer Pebesma (2014). Under these EIC's leaderships, the quality of C&G has steadily improved and its impact factor from 2010 to 2015 has almost doubled.

18. IAMG Office

Regina has done excellent work especially with more services related to the election of the IAMG's new Council this year.

19. New Council

Our new Council for 2016-2020 has been elected with the election results published in NL92 and to be ratified at the GA during the 35th IGC in Cape Town. The new Council consists of President: Dr. Jennifer McKinley (UK), Executive Vice President: Dr. Raimon Tolosana-Delgado (Germany), Treasurer: David Collins (USA), Secretary General appointed by the President: Eric Grunsky (Canada), Vice Presidents appointed by the President: Professor Christien Thiart (South Africa) and Dr. Guangsheng Yan (China), Past President: Qiuming Cheng (Canada/China), Councilors: Professor Gerald van den Boogaart (Germany), Dr. Xiaogang (Marshall) Ma (USA), Professor Guillaume Caumon (France), Dr. Jaime Gómez-Hernández (Spain), and IGC Councilor: Professor Hari Shankar Pandalai (India). The members of the new Council are from many different nations and reflect fundamental IAMG principles of promoting young scientists and women. Sincere congratulations to all new Council members! Many thanks must be given to the Nomination Commission chaired by Professor Frits Agterberg, Secretary General, to Regina van den Boogaart at the IAMG office, and to all members who have participated and contributed to the election. I trust the new Council under the leadership of Dr. Jennifer McKinley will bring in fresh ideas and energy to further enhance the IAMG and bring it into the new era.

20. I would like to take this opportunity to express my heartfelt gratitude to all IAMG members for your understanding and strong support for me and for the current Council. I also want to thank the Council members and others who have been working together closely and collegially on so many issues and matters to be dealt with for our Association. I enjoyed very much meeting with many members on numerous occasions and having the discussions and arguments which have shaped decisions and direction taken by the Council. I can say the current Council might not have been the best one ever, but it has tried its best to serve our members and our association. Time flies! Recall what we promised not long ago when we started our tenure in 2012: broadening the scope of the IAMG, increasing frontier earth science research, and enhancing the roles of young scientists and women within the IAMG were our main principles and objectives. Our ultimate wish was to increase IAMG membership and strengthen the impact of our association. While some promises have been achieved or partially completed, many others proposals are still on our wish list. I will keep working one way or another for the best of IAMG. I would like to close this report by expressing my sincere personal gratitude to those who have supported and influenced my work for IAMG and from whom I have learned a lot. I thank all my predecessors of IAMG former presidents of IAMG, Ricardo Olea, Frits Agterberg, Graeme Bonham-Carter, and Vera Pawlowsky-Glahn for the encouragement, supports and advices received during my presidency. I also thank Jennifer McKinley, Frits Agterberg, and David Collins for their understanding, tolerance and support in dealing with IAMG EC business. I want to say a big thank you to Harald Poelchau, Helmut Schaeben, Ricardo Olea, Christien Thiart, Jack Schuenemeyer, and

Eric Grunsky for kindly accepting my invitations to extend your service on committees and for their excellent work on committee business. Thanks are due to June Hill, Guillaume Caumon, Raimon Tolosana-Delgado, Gang Liu, Yongqing Chen, Yongzhang Zhou, Guangsheng Yan, and N.J Raju for your long term services to IAMG and your support. I also want to thank Jan Harff, Richard Sinding-Larsen, Ed de Mulder, Zhao Pengda for their long-term support. I am grateful to my team including my colleagues and students for their assistance on so many projects and events related to IAMG. I thank all my Chinese colleagues for their supports in promoting IAMG in China and for supporting IAMG activities. I thank York University, the State Key Lab of Geological Processes and Mineral Resources (China University of Geosciences) and the China Geological Survey for providing me the infrastructural and financial support ensuring the possibility of my presidential activities. I thank my family, my wife Ming Wu, son Tony and daughter Kathy, for your understanding, companying and supporting. My heartfelt thanks are due to Frits and Codien who have given me so much care and support.

TO: Frits Agterberg, Secretary General

DATE: 18th August 2016 REF: 2015–2016 report, Executive Vice President - J McKinley/ EVP2016-08

1. Involvement in Committees

I am pleased to have been able to support both the work of the President, Executive Committee and the Council.

As Chair of the Lectures Committee I am delighted to report the nomination of three excellent candidates to deliver the 2016 George Matheron Lecturer and that Dr Jeffrey Yarus was selected to deliver the 2016 Matheron lecture at the 35th IGC in Cape Town. Dr Clayton Deutsch was confirmed as the 2017 Distinguished Lecturer (DL). A more detailed report has been submitted outlining the work of the Lectures Committee over the last year (LC2016-08).

As an ex officio member of the Meeting Committee, together with my fellow members of the committee, I have provided support to the organizers of IAMG2017, Perth Australia and IAMG2018, Olomouc and Prague, Czech Republic.

2. Ongoing Concerns and Initiatives

As in my previous reports as EVP, I intend to follow up on several new initiatives highlighted by the President at the IAMG Council Meeting August 10, 2012.

IAMG- Geological Surveys: IAMG's involvement in government programs

The IAMG continues to work closely with governmental agencies worldwide to advance the role of mathematics, statistics and informatics. I have endeavored to do this in my roles as Trustee and Council Member of Geological Society of London (GSL) and Secretary for the Royal Irish Academy (RIA) Geoscience and Geographical Committee. I continue to sit on the Northern Ireland Government Assembly All-Party Group on Science and Technology as the GSL representative.

The IAMG has a role in increasing knowledge of how to maximize outputs from the generation of geochemical surveys by governments and agencies worldwide. One aspect of this is to continue to raise awareness of the compositional nature of the geochemical survey data generated and provide mechanisms to increase knowledge of the most appropriate methods to analysis compositional data.

! The first joint paper was published from the First International Workshop on Practical Aspects of Geochemical Exploration and Mapping with Logratio Techniques, GeoMap in Olomouc, Czech Republic, 17–20 June 2014. This collaborative paper aims to provide guidance on the challenges and the usefulness of compositional data analysis for regional geochemistry.

McKinley, J., Tolosana Delgado, R., Hron, K., de Caritat, P., Grunsky, E., Reimann, C., Filzmoser P., and van den Boogaart K, G., 2016. Single Component map: Fact or Fiction? *Journal of Geochemical Exploration*, <http://dx.doi.org/doi:10.1016/j.gexplo.2015.12.005>

! A Cost action- European Network for Analysing Regional Geochemistry through Optimised Statistics (ENARGOS) is being prepared for submission in December 2016. The action aims to establish an interdisciplinary network of geochemists, statisticians, mathematicians and users of geochemical maps working together to provide an informed statistical approach to deal with compositional data for regional geochemistry studies, with particular emphasis on resources prospection, environmental management and geo-related human health risks.

! Professor Vera Pawlowsky-Glahn and I will chair an invited session at the Royal Statistical Society (RSS), Manchester University (UK), on the 7th September (directly following the 35th IGC). The submission stream is Geostatistics, Sub Title: Compositional Data Analysis. Professor Juan José Egozcue, Universitat de Girona, Spain, will give a keynote introduction.

! I was invited to submit a bid to organize GeoENV2018 in Belfast (Northern Ireland, UK). The submission was supported by the IAMG council and was successful. The dates for geoENV2018 are confirmed as 3–7 July 2018.

a) **IAMG-Associations:**

Links between IAMG and IUGS initiatives

As Communications Officer of the IUGS – Initiative on Forensic Geology (IFG) (<http://www.forensicgeologyinternational.com/>) I continue to promote the use of geoinformatics in forensic geology. Most recently this involved presenting a workshop on Using a GIS Approach to Forensic Search Strategies at the 5th European Meeting on Forensic Archaeology, August 11-12 2015, Dublin Castle, Dublin, Ireland. <http://www.enfsi.eu/agenda/5th-european-meeting-forensic-archaeology>

I have immensely enjoyed my role as EVP and I'm extremely grateful to the generous and helpful support of my fellow committee members and colleagues and wish to sincerely thank the Executive and Council for the opportunity to support the work of the IAMG during my term as EVP.

Sincerely,
Jennifer M. McKinley

IAMG Executive Vice President

IAMG Secretary General's Annual Report by Frits Agterberg

The Secretary General is a member of the Executive Committee. Additionally, I was chairing the Outreach Committee and non-voting *ex officio* member representing the President on the Awards and Publications Committees. On behalf of the President, I chaired the Nominations Commission (Voting Members: Peter Dowd, Xavier Emery, Ricardo Olea, Helmut Schaeben, Deji Xu) for the new IAMG Executive and Council that will take over the MG management during the 35th IGC, in Cape Town, South Africa, during the IAMG General Assembly to be held on 29 August, 2016. This was the third and last time that I was chairing the Nominating Commission. Best wishes to Jenny and the new Council for continuing and expanding the valuable contributions of the IAMG.

Thanks are due to the numerous IAMG Members with whom I have exchanged e-mails during the past year. Unfortunately, during travel to IAMG2014 Codien, my wife had become ill. During surgery at the end of 2014, she was diagnosed with terminal cancer but instead of deteriorating rapidly, her condition stabilized and she was declared cancer-free by the end of February. However, at the end of August 2015 her decease was properly diagnosed as terminal mesothelioma in the bowel. Codien passed away on October 18th at home, immediately after a party to celebrate her 80th birthday and our 50 years of happy marriage. This event was attended by our four sons and their families. Qiuming and Ming, Eric and Jean, and Graeme and Gwendy were among the many guests. Codien had numerous IAMG friends. After 1990 she attended twenty one of our Annual Conferences. Qiuming kindly published an obituary for her in IAMG Newsletter No. 91. At the end of August I had to cancel our travel to IAMG2015. I am grateful to Eric for taking over my organizational duties for IAMG2015 in Freiberg. Many thanks for the many expressions of sympathy Codien and I have received from our IAMG friends.

During the year care was taken of day-to-day IAMG affairs with the capable help of Regina van den Boogaart, our Office Manager, who runs the IAMG Office. These affairs included within-Council communication; liaison with Committee Chairs and our Publishing Partners as needed; preparation of the annual report to the IUGS; Earth Science Matters Foundation partnership; membership issues; meetings; booths; contributions to IAMG Newsletter and websites; preparation of plaques, certificates, etc. I was also involved with activities related to our annual student and postdoctoral research scholarship competition. At the Council meeting preceding the 2014 Extraordinary General Assembly it had been decided that IAMG should become an Affiliated Member of the International Union of Geodesy and Geophysics. The Executive and Council of IUGG duly approved this and we are now affiliated with them, in addition to the existing affiliations with IUGS and ISI. New joint projects remain to be established.

During the spring I travelled to Europe first visiting Ed de Mulder in Haarlem to discuss ways to promote use of mathematics within the broader geoscience community. On April 18th, Ed and I co-chaired a session on "Multifractals and singularity analysis in mineral exploration and environmental assessment" in Vienna at the annual General Assembly of the European Geoscience Union. This session

(NP3.4) co-sponsored by the IAMG had both an oral and a poster component. The proceedings will be published in a special issue of the Journal of Geochemical Exploration (Qiuming Cheng and Frits Agterberg, Editors). After the meeting I had the pleasure of visiting IAMG Honorary Life Member Walther Schwarzacher in Belfast, Northern Ireland. It was possible to have discussions with Jenny who had just been elected as the new IAMG President.

List of IAMG Council Resolutions

10/08/2016: GISTAM 2017

The IAMG declines the invitation to support GISTAM 2017.

15/07/2016: Co-sponsorship of CoDa2017

IAMG will co-sponsor the 7th International CoDa Workshop to be held in Siena, Italy, June 5-9, 2017. IAMG financial contribution will amount to 2,500 Euros.

06/09/2015: Relationship with EAGE

The IAMG Council will communicate with the EAGE and report back to the IAMG Executive on the feasibility of a joint relationship between the two Associations with a SWOT analysis be carried out on the potential Memorandum of Understanding.

06/09/2015: Release of names of award winners

The Awards and Lecturers Committees will consider the possibility to make earlier than at present release of names of award winners and will report back to Council by 1 November 2015 after further internal discussions of the matter.

06/09/2015: IAMG budget for 2016

The IAMG Council adopts the 2016 Budget as presented in the Treasurer's Report.

06/09/2015: IAMG's Golden Anniversary

The IAMG Council supports the proposal that the 2018 Annual Meeting be held in the Czech Republic with a scientific meeting in Olomouc and other events to be held in Prague.

Concluding remarks

During intervals between General Assemblies the IAMG is governed by its 12 Voting Council Members who are duly elected by the IAMG Membership. Many decisions are taken by the Executive Committee and the Committee Chairs. Most communications that involve decision-making took place within the so-called Extended Council, which in addition to the Voting Members contained the Non-voting members of Council, Committee Chairs, former Presidents and other Members

selected for the provision of advice. Many decisions were based on consensus of opinion within the Extended Council and were not subjected to blind voting by the 12 Voting Council Members only. Notable decisions of this type included the IAMG's €5,000 financial support of the Geostatistical World Congress (Geostats2016) to be held in Valencia, Spain, 5-9 September, 2016, and €2,500 for the 11th International Conference on Geostatistics for Environmental Application (geoENV2016) to be held in Lisbon, Portugal, July 5-8, 2016.

It was decided to propose Qiuming as a candidate for the position of IUGS President (2016-2020) with the mandatory guaranty that IAMG would provide annual financial support of US \$ 20,000 for each year of his 4-year term if he will on Friday, August September 2nd, 2016 by the Voting Members of the IUGS. Other decisions taken during the year included amendment of the original Golden Anniversary (IAMG2018) proposal: Václav Němec was excluded from its organizing committee because of a disagreement regarding the matter of "geoethics". Nevertheless, an excursion to Prague, birthplace of the IAMG, is to be organized. Recently I became involved in preparations for a Springer book entitled "Fifty Years of IAMG" (to be edited by B.S. Daya Sagar, Qiuming Cheng and Frits Agterberg). Forty seven IAMG award winners and founding members have already agreed to contribute chapters to this volume. At the conclusion of my term as Secretary General I would like to express my sincere thanks to all of you for your tremendous support during the past four years.

To: Frits Agterberg, IAMG Secretary General
From: Jack Schuenemeyer, Chair, IAMG Awards Committee
Date: 16-July-2016
Re: Awards Committee Annual Report

1. The Committee selected Prof. Peter Dowd for the 2016 Krumbein Medal and Prof. Juan Egozcue for the 2016 Griffith Award.
2. While the Committee believes the two winners are eminently qualified, there were very few nominations. The award notices have been published in our newsletter and appear on our website, however, we need the assistance of the Council and other members of our organization to publicize and make nominations for these awards. Members of the Awards Committee are not allowed to make nominations. The Committee believes that we have many deserving individuals among our members. We just need our members to recognize and nominate these individuals.
3. After discussion with members of the Council, the Awards committee decided to change the deadline for nominations to October 31. Thus for the 2017 Chayes and Vistelius awards, nominations must be received by the Awards Committee chair no later than Oct. 31, 2016. No extensions will be granted. The Awards Committee will make a decision by Nov. 30, 2016 and will notify the President of IAMG of our decision, who in turn will notify the award winners. This same deadline of Oct. 31st will apply to the nominations for the 2018 Krumbein and Griffith awards. These changes are permanent until or unless changed by the Committee and approved by Council. No changes have been made to any of the qualifications or age deadlines. They remain the same as posted on our website. The reason for moving the deadline up was to provide more time for notification of the winners, publicize the winners, and otherwise assist conference organizers.

INTERNATIONAL UNION OF GEOLOGICAL SCIENCES (IUGS)

Reporting Form for IUGS Affiliated Organizations 2015

1. Name of Affiliated Organization

Earth Science Matters (ESM) Foundation

2. Overall objectives

The Earth Science Matters Foundation aims to communicate Earth science information with a wider audience by promoting smart, Earth-science based solutions to current challenges and to assist Earth science organisations in their outreach activities.

3. Relate goals to overall IUGS scientific objectives

Promoting and communicating Earth sciences to a wider audience clearly fits in the overall aims and ambitions of the IUGS. Therefore, the Earth Science Matters Foundation aims to share its expertise in this field with IUGS and to cooperate with the Union in current and new outreach initiatives to the benefit of both organisations. Through one of its National Focal Points, ESM is related with the IUGS Commission on Geoscience Education, Training and Technology Transfer (COGE). One of IUGS' Executive Committee members participates in one of ESM's projects.

4. Structure and organization

The Earth Science Matters (ESM) Foundation is registered as a non-profit organisation in The Netherlands. The ESM Foundation has a Board consisting of five members, including a Chair and a Treasurer. Operational aspects of the ESM Foundation are conducted through a Secretariat and its international backbone is constituted by National Focal Points, currently representing 26 nations worldwide. The ESM Foundation is a follow-on initiative of the International Year of Planet Earth (IYPE) and created on request of the National and Regional IYPE Committees.

5. Interaction with other International organizations and projects

In addition to IUGS, the Earth Science Matters Foundation is connected with other international geoscience organisations through formal partnerships and affiliation with the International Association of Mathematical Geosciences (IAMG), the International Lithosphere Program (ILP), the Geological Society of Africa (GSAf) and the Young Earth Geoscientists (YES) Network. With these Partners several joint projects are being implemented. In addition, the ESM Foundation cooperates with the International Continental scientific Drilling Programme (ICDP), with IGU in the International Year of Global Understanding (IYGU), and in the Book Series on World Regional Geography, and with several Geological Survey organisations. Through its network of National Focal Points, ESM is connected with other international geoscience organisations, including the International Association for Geoethics (IAGETH), and the IUGS Commission on Geoscience Education, Training and Technology Transfer (COGE). Likewise, ESM is connected with

the European and Global Geoparks Network, the European Union's project 'GEO-Schools and Geo-Education', as well as the 'International Consortium of Landslides' and its 'Landslide Programme'.

6. Chief products

In 2015, on request of the IAMG, the Earth Science Matters Foundation reported on Outreach on Local Singularity Analysis. An article was submitted for publication on Future Earth in Global Planetary Change. This paper comments on the 69 priorities as given in Future Earth's Research Agenda. In 2015, ESM's number of National Focal Points rose to a total number of 27 nations. In 2015, a longer term Partnership Agreement was signed with IAMG and progress on Partnership was made with the Peking Natural Science Organisation (PNSO) which premises in Beijing were visited in October.

7. Chief accomplishments 2015 and plans for 2016

In 2015, Courtney Jermyn entered the Secretariat of the Foundation as she was appointed Deputy Director by the ESM Board. That appointment considerably strengthens the 'ESM Secretariat' working capacity. ESM co-chaired the NP3.6 Session in EGU in Vienna on Multifractals and singularity analysis in mineral exploration and environmental assessment. That resulted in a Report for the IAMG Newsletter. A article on Local Singularity Analysis was written together with IAMG Board members and submitted for publication in EPISODES. Publication is due for March 2016. Together with representatives of the GEO-Unions in ICSU a commentary was compiled on the proposed Topics for the Future Earth Research Agenda. That commentary was submitted for publication to the Journal Global and Planetary Changes. Renewal and longer-term consolidation Partnership was discussed with the International Association for Mathematical Geosciences (IAMG). On invitation by the Peking Natural Science Organization, in October, Partnership was discussed with PNSO in their Beijing Offices. A Conceptual contribution to the PNSO Newsletter (8 million copies) was delivered. Partnership was also discussed with Kartographie Huber in Munich, Germany. A Forum on Geoscientific contributions to the New Silk Road ambitions in Wuhan was attended and a presentation was given for the YES members of that Forum on that occasion. The Silk Road premises at the Wuhan Geoscience University were visited. The Chair of the Board participated in Geoparks meetings in Finland, Japan, Taiwan and China where he gave presentations. National Focal Points were expanded by Robert Krikl, who represents Austria and who has beaten the World Record by exposing a model of a salt-crystal magnified one billion times, in the framework of the UN Year of Crystallography. In support of the IGU's International Year of Global Understanding (2016) contributions were made to the Book Series on World Regional Geography.

ESM activities anticipated for 2016 include: preparing and submitting a proposal for an EU call on Geoscientific contributions to the New Silk Road, publication of a commentary of Future Earth' Research Agenda, Co-chairing the 2016 EGU Session on multifractals and singularity analysis, preparing an Outreach Agenda for IAMG. Participation in the IAMG Annual meeting at the IGC in Cape Town, compiling a model book in the SPRINGER-NATURE Series World Regional Geography, presentations and publications on Geopark

related topics, organizing ESM Board meeting and National Focal Point meetings at IGC in Cape Town, August.

8. **Specify how any IUGS Allocation for 2015 was used**
Not applicable
9. **Budget request with justification for 2016 (only applicable to low income affiliates)**
Not applicable
10. **Does your website have a link to IUGS?**
Yes

TO: Frits Agterberg, Secretary General

**DATE: 18th August 2016 REF: 2015–2016 report, Lectures Committee/
LC2016-08**

The following constitutes a summary of the work of the Lectures committee between September 2015 and August 2016:

1. Committee organization

The composition of the 2012–2016 Lectures committee comprised Peter Atkinson (UK); Timothy Coburn (U.S.A.); Jaime Gomez-Hernandez (Spain); Katsuaki Koike (Japan); Sanjay Srinivasan (U.S.A.); Hans Wackernagel (France); Ex officio – President’s Representative (non-voting): Vera Pawlowsky-Glahn (Spain); Jennifer McKinley (UK) Chair.

The Chair of the 2012-2016 Lectures committee would like to thank the members above for their essential input and support in this important IAMG role.

Dr Christien Thiart, in her new role as one of the President’s appointed Vice Presidents, has agreed to act as the Chair of the 2016–2020 Lectures committee. Christien will take over the role of Chair at the 35th International Geological Congress (IGC) in Cape Town, South Africa, 27th August to 4th September 2016.

2. The George Matheron Lecturer

Nominations were invited for the 2016 George Matheron Lecturer. Three excellent nominations were received and Dr Jeffrey Yarus was selected to deliver the 2016 Matheron lecture at the 35th IGC in Cape Town. The IAMG President, Professor Qiuming Cheng will chair the keynote session at the 35th IGC.

The 2017 Distinguished Lecturer

Dr Clayton Deutsch was confirmed as the 2017 Distinguished Lecturer (DL). The DL will be announced at the 35th IGC. Dr Deutsch is unable to attend the IGC, but will present his DL lecture topics as part of his keynote on Friday 10th October at Geostats2016 in Valencia.

The list of the DL2017 lecture topics will include:

1. All Realizations All the Time
2. Geometallurgy from a Geostatistical Perspective
3. Millimeter to Kilometer Scale Reservoir Modeling
4. Recent Developments in Multivariate Geostatistics

Dr Sean A. McKenna 2016 DL has presented lectures at a number of international locations including most recently geoENV2016, 3rd to 8th July in Lisbon, Portugal. A more complete list of Dr McKenna's DL invitations is given overleaf.

Prof Gordon Kaufman 2015 DL completed a very full year of invited talks and engagements.

Dr Eric Grunsky 2014 DL presented his last remaining long standing DL invitation at the Geological Survey Ireland (GSI) where he gave a short course on Compositional Data analysis using the Tellus and Tellus Border datasets. Dr Grunsky was also invited by the Geological Society London Northern Ireland Regional group (Belfast) to give a short course and keynote presentation.

Eric, Gordon and Sean are thanked for their commitment and service to the IAMG.

3. IAMG Conferences

The committee has been corresponding with the Meetings committee to confirm details for IAMG2017, Perth Australia and IAMG2018, Olomouc and Prague, Czech Republic. J Gomez-Hernandez and J McKinley continue to be members of the Meetings Committee.

Dr Sean A. McKenna 2016 Distinguished Lecturer Invitations

January 8th, Copenhagen, Denmark

- *Modeling Groundwater Flow and Transport in Heterogeneous Media (IAMG Distinguished Lecturer Presentation)*
- Geological Survey of Denmark and Greenland (GEUS)
- Hosts: Peter Frykman and Jens Christian Refsgaard

March 18th, Madrid, Spain

- *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- Instituto Geológico y Minero de España (IGME)
- Host: Eulogio Pardo Iguzquiza

April 27th, State College, Pennsylvania, USA

- *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- Dept. of Energy and Mineral Engineering, Penn State University
- Host: Sanjay Srinivasan

April 28th, South Bend, Indiana, USA

- *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- Civil and Environmental Engineering and Earth Sciences Dept., Notre Dame University
- Host: Diogo Bolster

April 29th, Madison, Wisconsin, USA

- *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- Geological Engineering Program, University of Wisconsin,
- Host: Bill Likos

July 6-8th, Lisbon, Portugal

- Keynote Presentation (*IAMG Distinguished Lecturer Presentation*)
- GeoEnv Conference
- [Conference Website](#)

July 19th, Edinburgh, Scotland

- ! *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- ! Petroleum Engineering Program, Heriot Watt University
- ! Host: Vasily Demyanov

July 20th, Edinburgh, Scotland

- ! *Hidden Markov Models in Environmental and Geoscience Applications (IAMG Distinguished Lecturer Presentation)*
- ! The International Environmetrics Society, 26th Annual Conference
- ! [Conference Website](#)

Sept 5-9, Valencia, Spain

- ! *Mapping the significance of El Niño/La Niña impacts on vegetation patterns in the Amazon Basin (Invited Presentation, IAMG Distinguished Lecturer Presentation)*
- ! 10th International Geostatistics Congress
- ! [Conference Website](#)

September 26th, Socorro, New Mexico

- ! *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- ! New Mexico Tech, Dept. of Earth and Environmental Science
- ! Host: Jesus Gomez-Velez

September 27th, Albuquerque, New Mexico

- ! *TBD (IAMG Distinguished Lecturer Presentation)*
- ! Sandia National Laboratories
- ! Host: Susan Altman

September 28th, Laramie, Wyoming

- ! *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- ! University of Wyoming, Dept. of Geology and Geophysics
- ! Hosts: Dario Grana & Steven Holbrook

September 29th, Golden, Colorado

- ! *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- ! Colorado School of Mines, Dept. of Geology and Geological Engineering
- ! Host: Kamini Singha

October 2nd, Philadelphia, Pennsylvania, USA

- ! *Smarter Planet 2.0 (Keynote Presentation, IAMG Distinguished Lecturer Presentation)*
- ! Society for Industrial and Applied Mathematics (SIAM), Mathematics for Planet Earth Conference
- ! [Conference Website](#)

December 19th, Aachen, Germany

- ! *Modeling Ground Water Flow and Transport in Strongly Heterogeneous Formations (IAMG Distinguished Lecturer Presentation)*
- ! Aachen Institute for Advanced Study in Computational Engineering Science (AICES), RWTH Aachen University
- ! Host: Florian Wellmann

TO: Frederik P. Agterberg, Secretary General
FROM: Meetings Committee, Ricardo A. Olea, Chairman
DATE: 16 August 2016
REF: 2015–2016 report, Meetings Committee/MC2016-7

The Meetings Committee continued with its mission of coordinating the professional meeting activities of the Association. The most remarkable developments since the last General Assembly in Freiberg are:

1. The Committee worked in close collaboration with Christien Thiar, IGC Councilor and Meetings Committee member, helping with preparation of sessions and IAMG activities during the 35th International Geological Congress.
2. Efforts to participate in the new series of quadrennial meetings by IUGS have culminated with the appointment of Eric Grunsky to organize sessions at the First Conference on Resources for Future Generations in Vancouver, 16–21 June 2018. So far, the program includes two sessions.
3. We encouraged President Elect Jennifer McKinley, ex officio member of the 2012–2016 Meetings Committee, to go ahead and bid to organize the GeoENV2018 in Belfast (Northern Ireland). Eventually, the proposal was accepted, so our 2016–2020 President is in charge of organizing the event in her capacity of GeoENV member. The dates for geoENV2018 have now been confirmed as 3–7 July 2018.

4. The Committee supported and Council approved a grant of € 2,500 requested by IAMG members Josep Martín-Fernández and Antonella Bucciatti to organize the 7th International CoDa Workshop to be held in Siena (Italy), 5–9 June 2017.

5. We provided several suggestions to Raimon Tolosana-Delgado in response to an email requesting the opinion of the Meetings Committee concerning the possibility of organizing a session at the coming conference of the Geoscience Group of the Society of Industrial and Applied Mathematics (SIAM) in Erlanger, Bavaria (Germany), 11–14 September 2017. This Group organized a session at IAMG2015 at the invitation of Raimon. He has decided to go ahead organizing a session.

6. The Committee received an email from the Institute for Systems and Technologies of Information, Control and Communication inviting IAMG to support the 3rd International Conference on Geographical Information Systems Theory, Applications and Management, GISTAM2017, to be held in Porto (Portugal) 27–28 April 2017. Council decided not to support this meeting.

7. The organizers of the next two IAMG conferences continue working according to schedule in the preparation of IAMG2017 in Perth (Australia), 2–9 September 2017 and IAMG2018 to celebrate the Association's Golden Anniversary in Olomouc (Czech Republic), 2–8 September 2018. An announcement was published in Newsletter 92 inviting bidders for organizing IAMG2019. IAMG member Sanjay Srinivasan, John and Willie Leone Family Chair, Department of Energy and Mineral Engineering, Pennsylvania State University (USA), has expressed interest in organizing the event.

Annual Report Outreach Committee; Frits Agterberg, Chair

The IAMG is a professional multidisciplinary society. Its mission is to promote, worldwide, the advancement of mathematics, statistics and informatics in the geosciences. It is Scientific International Partner of the Earth Science Matters (ESM) Foundation. IAMG enjoys outreach support it is receiving from Earth Science Matters in getting the message across that mathematics plays a fundamental role in geoscientific process modeling. From 2008 onward, when the IAMG first became partner in International Year of Planet Earth, and subsequently as Scientific International Partner of the Earth Science Matters Foundation, I have had annual meetings with Ed de Mulder, Executive Director of these two important endeavors.

In the Earth Science Matters (ESM) Forum at the IGC in Brisbane, August 2012, I had presented “Outreach support for Earth Science organizations: the IAMG”. This meeting was attended by Past IAMG President Vera Pawlowsky-Glahn and IAMG President Qiuming Cheng. Several points raised were as follows: Processes taking place in the Present include those resulting in earthquakes, volcanic eruptions, landslides and climate change. IAMG scientists are also concerned with 3-dimensional imaging and modeling of the Earth's crust that contains the products of processes, which took place millions of years ago. These products include accumulations of valuable substances necessary for the survival of humankind. An important question that needs to be answered in the study of Earth-related processes is: “*How reliable are Earth predictions?*”

We all know that weather forecasts have improved significantly because of better understanding of the processes that control weather as well as widely increased availability of databases with improved sampling and monitoring. Additional scientific work involving mathematics is needed to make progress in the Earth

prediction fields. Two examples of current research by IAMG scientists are (1) Compositional data analysis and (2) Local singularity analysis. These two topics were singled out for special consideration from among a list of IAMG potential special outreach topics that included: Mathematical resource modeling: petroleum basins and permissive tracts for mineral deposits; Spatial statistics: variograms and kriging; Geological hazards: Earthquakes and landslides; Geological time scale; Statistics of directional features; Climate change; and hydrofracturing. Compositional data analysis was the first main topic of collaboration with ESM. On June 2nd 2015, the founding meeting of the Association for Compositional Data (CoDa-Association) was held. Formal association of IAMG with this new organization is being established. Last year, emphasis for work in cooperation with ESM has shifted to singularity analysis. The applicability of this new approach is described in a Forum in Episodes (Vol. 39, No 1, pp. 70-71, 2016) entitled “New and game-changing developments in geochemical exploration”

In addition to the IAMG booth originally prepared for Oslo IGC in 2008 and later put up annually by Ute Herzfeld at the AGU Fall meeting in San Francisco, a new booth was developed in 2012 that was shared with Earth Science Matters and the International Lithosphere Programme. We have reserved IAMG booth space at the Cape Town IGC in 2016, where Ute is bringing a modified version of our 2008 booth for display. Also, the IAMG was invited to display material in the IUGS booth at the IGC. This material was prepared with the help of Zhijun Chen who also has ably helped in the preparation of 2016 updated IAMG brochure.

As graphically illustrated by Harald Poelchau in his IAMG Newsletter No. 92 (June 2016), IAMG membership has hovering around the 800 mark over the past four years. Ideally, we should have about 1000 members in order to sustain our pool of competent mathematical geoscience professionals willing to serve on the IAMG Council and our committees as well as collaborating in other ways. Outreach is not only needed to promote mathematics within the geoscience community. Worldwide there are more than one million geoscientists. Many of them use mathematical methods in one way or another but are not IAMG members. They should be made aware of our existence and made welcome to join us. IAMG already uses two methods to accomplish this: authors and co-authors who publish articles in our three journals are invited to free one-year memberships, and participants in meetings sponsored or co-sponsored by the IAMG are offered reduced registration fees. This year, in addition to our support of the 7th International CoDa Workshop to be held in Siena, Italy, we are making significant financial contributions to two geostatistical meetings (Geostats2016 and geoENV2016) in order to help recruit more geostatistical members. Our Mathematical Geosciences journal already provides a primary outlet for geostatistical publications.

IAMG continues to be formally allied with Young Earth Scientists (YES) as a good way to bring in new young members. Wenlei Wang who is our YES representative was recently elected YES Vice President for Scientific Collaboration. This will help to bring in new student members and young professionals for whom the IAMG continues to maintain strong programs. At the end of my term, I would like to express my sincere thanks to the members of the Outreach Committee for their support during my tenure.

Publications Committee Report 2016

Eric Grunsky, Chair, Publications Committee
2016-August-15

Advertising for a new IAMG Monograph Series Editor

The IAMG has been without a Monograph Series Editor since mid-2014. This position, previously held by JoAnne de Graffenreid, has been vacant despite an advertisement in the IAMG Newsletter. The PC recommends that we contact the Publisher (Oxford) and ask for guidance/recommendations for finding a new series Editor, including advertising on the Oxford website. This position could also be considered for amalgamation with a general communications manager for the IAMG, which will be discussed below. Our current contact for the Monograph Series is Phyllis Cohen (phyllis.cohen@oup.com). Phyllis has been contacted about advertising to obtain potential candidates.

Advertising for a new IAMG Newsletter Editor

The current Newsletter Editor (Harald Poelchau) has expressed his intention to step down within the next year. The Newsletter has become a valued form of communication for the Association. The IAMG needs to find a suitable candidate as soon as possible so that the current Editor can provide transition guidance to the new Editor. This can initially be advertised in the IAMG Newsletter and the IAMG website. Another possible avenue is to advertise through the IUGS.

Advertising for a new IAMG website content manager

The current IAMG website manager (Harald Poelchau), who is also the Newsletter Editor, has expressed his intention to step down as soon as possible. Technical and security issues associated with website management and maintenance requires a manager who has advanced technical skills in website management. The solution to this issue is not resolved and requires further investigation.

Integrating the IAMG websites and establishing a secure business site

Currently, the IAMG manages two websites, www.iamg.org and iamgmembers.org. These two sites are currently managed separately. Dragonflydesigns.ca is the company that manages the website content. The Newsletter Editor manages the content with assistance from Dragonfly. iamgmembers.org is managed by the IAMG office manager (Regina van den Boogaart) from which membership lists, subscriptions, and more recently, conference expenses are managed. There is a need to integrate these services to provide better security and more effective management of website content and services. The PC should solicit advice on developing a way forward on this issue.

Establishing Copyright for the IAMG

Currently, the IAMG publishes the proceedings of the annual meetings as stand-alone publications in the form of proceedings organized through publishers (Springer, Elsevier, Oxford) or through sponsoring institutions (universities, research institutes). These publishers have retained the copyright of any IAMG material that has been included in those proceedings. There have been some occasions where there has been no formal

establishment of who owns the copyright to the proceedings.

In the last 5 years Curran and Associates, under contract with Elsevier has indexed the proceedings of the annual meetings and made them available for scientific search engines, notably SCOPUS. More recently Curran and Associates has contacted the IAMG Publications Committee to allow Curran and Associates to sell printed copies of IAMG Proceedings on an “on-demand” basis. The justification for this is the claim that some institutes will not accept digital copies of proceedings as “legitimate”. The IAMG would retain the copyright and receive a small royalty for any proceedings that would be published. The Publications Committee considered this request by Curran and Associates, and although the offer appeared to be appealing, further consideration revealed that it would not be in the best interests of the IAMG to surrender its right to provide copies of the proceedings on demand. Furthermore, there was concern that Curran and Associates would “appear” to be a publishing agent for the IAMG and there is concern over this perception.

The right of the IAMG to retain copyright and distribution rights has not been formally considered. One possible solution to this issue is to adopt the Creative Commons approach (<https://creativecommons.org/>) in which “*Creative Commons helps you legally share your knowledge and creativity to build a more equitable, accessible, and innovative world — unlocking the full potential of the internet to drive a new era of development, growth and productivity.*” It is hoped that the PC will investigate this approach to copyright as a means to formally recognized IAMG publications.

Journal Reports

Computers & Geosciences

Overview

Last year was a good year for Computers & Geosciences. Since May 2014, Jef Caers and Edzer Pebesma have shared the load of Chief Editor, Jef focusing on subsurface and visualisation, Edzer on surface and atmosphere and web services. Since May 2016, Gregoire Mariethoz has taken over from Jef, who served two terms of 3 years each. Here is the list of topics discussed in more detail below:

- ! Increase in impact factor
- ! Changes in Editorial staff; board meeting
- ! New editorial system: EVISE
- ! Scope & Special issues
- ! Best-paper award

Impact factor

2015 saw a strong incline in the IF as well as in the 5-year impact factor:

2012 IF: 1.83

2013 IF: 1.56

2014 IF: 2.054

2015 IF: 2.474

2012 5 year IF: 1.99

2013 5 year IF: 1.95

2014 5 year IF: 2.214

2015 5 year IF: 2.540

The 1 year IF of 2.474 is the highest in CAGEO history, which is great news.

CAGEO is now ranked 19/104 (2014: 25/102) in the COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS category, and 47/183 (2014: 64/175) in the GEOSCIENCES, MULTIDISCIPLINARY category, indicating that both rankings climbed significantly in 2015.

The top cited article "A comparative study on the predictive ability of the decision tree, support vector machine and neuro-fuzzy models in landslide susceptibility mapping using GIS" was cited 51 times in 2015. As it was published in 2013, it will not contribute to the 2016 IF, which may drop somewhat as a consequence. The top 10 most recently cited papers in 2015 cover a wide range of topics.

Changes in Editorial Staff; board meeting

Since May 2014, Edzer Pebesma joined Jef Caers as EiC; in 2016, Gregoire Mariethoz took over from Jef. Gregoire's nomination got a strong positive response from the IAMG board. The cooperation between Edzer, Gregoire and publisher Paul Cumine (Elsevier) has been very well.

Associate Editors:

- ! Carlos Granell from Universidad Jaume I (Castillon, SP) has joined the team of Associate Editors, taking care of submissions related to computer science,
- ! Eric Laloy from the Belgian Nuclear Research Centre (SCK-CEN), taking care of submissions in the area of numerical flow models, inversion, and high-performance computing
- ! James Syvitski stepped down as associate editor, after having completed his fourth special issue (see below).

Paul, Gregoire and Edzer met in person during EGU 2016; Paul indicated that the number of submissions is rising pretty strongly, and there may be room for a third editor. Gregoire and Edzer are actively trying to enlarge the board of associate editors, in order to cope with the increase in volume. Regrettably, neither Gregoire nor Edzer will be able to attend the IAMG 2016 meeting.

New editorial system: EVISE

As part of migration of all Elsevier journals to the new editorial system EVISE, as of July 2016, Computers & Geosciences has also migrate. The editors and associate editors are getting used to the new system, which is meant to be better than the old one.

Scope & Special Issues

The new scope introduced in June 2012 has now taken full effect. The scope change is mainly towards a focus on Computer Science. This means that papers now need to demonstrate originality in research in that area and that just providing some code based on a mostly methodology paper is no longer acceptable. Standard applications of GIS are no longer within the scope either. People keep submitting standard codes (without new science), probably relying on what they had seen published before 2012. Those papers are now declined outright, leading to high decline rates in 2014 and 2015. Many authors send papers without reading scope or because their manuscript was declined elsewhere. We are making efforts to increase the amount of “dedicated” manuscript, namely those written from the outset as a paper for CAGEO. We are inclined to believe that the increased IF reflects this decision.

Special issues published in 2015/6

- ! Uncertainty and Sensitivity in Surface Dynamics Modeling: guest editors: Albert Kettner, James Syvitski (Vol 90, part B, May 2016)
- ! Statistical learning in geoscience modelling: novel algorithms and challenging case studies: guest editors: Vasily Demyanov, Mikhail Kanevski

Special issues in the pipeline

- ! Software Papers; guest editor: Edzer Pebesma; 10 manuscripts under review.

Best paper awards

The entire board voted on best papers which were nominated by readers. The winners are:

Computational papers:

Gautier Laurent, Guillaume Caumon, Mark Jessell, Interactive editing of 3D geological structures and tectonic history sketching via a rigid element method, Computers & Geosciences, Volume 74, January 2015, Pages 71-86, ISSN 0098-3004, <http://dx.doi.org/10.1016/j.cageo.2014.10.011>

Informatics papers:

Jarosław Jasiewicz, Paweł Netzel, Tomasz Stepinski, GeoPAT: A toolbox for pattern-based information retrieval from large geospatial databases, Computers & Geosciences, Volume 80, July 2015, Pages 62-73, ISSN 0098-3004, <http://dx.doi.org/10.1016/j.cageo.2015.04.002>

Natural Resources Research

The four issues of volume 24 (2015) have 508-25 (pages-articles). So, compared with the 2010-2014 5-year average of 402-25 (pages-articles), we had 104 (26%) increase in number of printed pages but no increase/decrease in number of articles during 2015. This significant increase in printed pages is due to two reviews papers with a total of 122 pages – one with 56 pages and the other with 66 papers. The latter is the article from the EMD-AAPG (Energy Minerals Division of the American Association of Petroleum Geologists), our co-sponsor.

For the preceding year 2015, we had:

- a) an 11% decrease in manuscripts submitted from 65 in 2014 to 58 in 2014;
- b) a 21% decrease in acceptance rate from 56% in 2014 to 44% in 2015 (or 27% increase in rejection rate from 44% in 2014 to 56% in 2015), meaning we have increased our efforts to accept only high quality papers;
- c) a 31% decrease in average days to final disposition of accept from 140 in 2014 to 97 in 2015, meaning we have increased our efforts to reduce the peer-review period;
- d) a 41% decrease in average days to final disposition of reject from 34 in 2014 to 20 in 2015, meaning we have increased our efforts to quickly screen papers that are unsuitable for publication.

The above figures mean that there were less accepted articles to publish in 2015 compared to those in 2014; yet, we still had a slight but healthy backlog of articles for publication in 2016. In fact, all the four issues of volume 25 (2016) with the 4th issue published online this August and the hardcopy version to be released in September 2016. Volume 25 (2016) has a total of 496 pages and 31 articles, which exceed the 2010-2014 5-year first three issue average of 402 pages and 25 articles, respectively. These are partly due to the slight backlog from 2015 and partly due to the high number of (currently 41) submissions early this year. Because of the advanced publication of all four issues of volume 25 (2016), NRR will have a new publication starting next year 2017, i.e., January – April – July – October (compared to the existing schedule of March – June – September – December) so as to narrow the gap between the 4th issue of volume 25 and the 1st issue of volume 26 (2017).

In terms of NRR's impact, the indices seem to be improving for the 5-year period 2011-2015 (see table below) implying that there was increasing interest in the articles published in NRR during the last 1-2 years or so, and that is quite encouraging. In fact, Petra van Steenberghe – our contact Publication Editor in Springer – and I are currently checking all ISI criteria to see if we can submit an application next year for the Science Citation Index.

Year	No. of articles	Citations	% not cited	SJR	SNIP	IF
2015	25	749	68.75	0.457	1.118	1.227
2014	23	557	40.00	0.306	0.780	0.415
2013	22	496	36.36	0.567	0.735	0.417
2012	30	544	32.35	0.785	1.055	0.680
2011	29	513	13.79	0.471	1.045	0.721

(All data from Scopus as of 02 August 2016, except for # of articles which is from Springer and for IF which is from ISI)

Attracting submissions of good papers continues to be a concern. We had a few submissions from IAMG members lately, but we still hope that more other members of IAMG will do the same. This year we are running a special issue on "GIS-Based Geochemical Anomaly and Mineral Prospectivity Mapping", with papers coming partly from the session I convened in the Goldschmidt2016 conference (26 June – 1 July 2016, Yokohama, Japan) and from the session I will convene in the 35th IGC (27 August – 4 September 2016, Cape Town, South Africa). So far, 13 authors have pledged to contribute to this special issue. If successful, the special issue will be published in July

next year. In addition, we will be running a special issue on "Mineral Resources of the Future" with contributions coming from the presenters in the Theme "Resourcing Future Generations" of the forthcoming 35th IGC. So far, 8 authors have pledged to contribute to this special issue, which, if successful, will be published in October next year.

John Carranza
09 August 2016

Mathematical Geosciences

Annual Report 2015 *Mathematical Geosciences*

The report below is an update on production and a summary of the journal's performance, concluding with comments regarding future goals.

I. The Production Front

Collaboration and working relations with Springer are outstanding; we are grateful to the service of Dr. Annett Buettner, who continues to fulfill the role of Publishing Editor for our journal since 2012. In addition, we are equally grateful to Dr. Johannes Morawcsik, who continues to assume the role of as Production Editor.

II. Publications Update

Mathematical Geosciences published a total of 44 manuscripts in 2015 and has published another 29 already in the six issues from this year. Book reviews continue to constitute an important portion of published material. **However and as always, please do note that suggestions of books to review and volunteering to do the reviews continue to be needed and are ALWAYS greatly appreciated.** We did not have book reviews the last few months.

Recent Special Issues

2015:

- ! 47(1) Special Issue on Geothermal Energy (Guest Editors: Roland Horne and Kewen Li)

III. Performance Report

As recently announced, the Impact Factor (Thomson Reuters) for 2015 is 1.777, with specific details given in Table 1 for the last three years. This number is considerably greater than last year's IF, with a significant increase in the number of cites as well. Please note that 723 cites for a journal that has published 44 papers in 2015 is not minor. We aim to maintain an upward trend on all fronts moving forward.

One of our goals is a stable IF above 2. And for this all of us need to be aware that we should not forget references to papers published in MG particularly the last couple of years.

Year	2013	2014	2015
Total Cites	454	592	723
Impact Factor	1.713	1.653	1.777
5-year Impact Factor	1.761	1.915	1.918
Immediacy Index	0.388	0.422	0.364
Articles	49	45	44
Cited Half-life	3.4	4.0	4.7
SJR Number	0.951	1.226	1.562

Table 1: Thomson Reuters reporting for 2013-2015
(Source: Thomson Reuters Web of Knowledge, SCImago Journal and Country Rank [SJR]).

As in the past reports, the relative performance of the journal over the past years under the name Mathematical Geosciences is summarized in Table 2, with comparative statistics given since 2011.

Year	2011*	2012*	2013	2014	2015
Total Cites	234	357	454	592	723
Impact Factor	1.354	1.440	1.713	1.653	1.777

Table 2: Thomson Reuters reporting for 2011 - 2015 (Source: Web of Knowledge).

	2011	2012	2013	2014	2015	2016*
New manuscripts received	138	174	220	172	179	108
Average turnaround time : submission to first decision	80.6 days	72.5 days	76.8 days	75 days	62.2 days	39.6 days
Total reviewers invited	370	409	755	640	429	282
Days to complete review from day invited	52.9 days	38.6 days	36.4 days	37.4 days	39.6 days	37.9 days
Rejections	52%	60.4%	50.5%	58.1%	66.7%	59.4%

Table 3: Summary statistics on MG's performance (*from Jan 1 until July 31) – note that turnaround times in reviews shown above are affected by a very few extreme cases.

Objectives for 2016 and Beyond

- ! Further increase the number of citations of papers published in MG for 2016- 2017, as well as reach and maintain an ISI factor that is above 2.0.
- ! Further increase the amount of manuscript submissions to a healthy number over 200 per year –a goal that has been difficult to achieve over the last decade. Note from Table 3 the stable and healthy number of paper submissions at 170 plus papers per year from 2012 and on, generating a finally stable journal.
- ! Increase the number of individual subscriptions, which we did not succeed in doing in 2015.
- ! Continue to attract new, prominent colleagues to all of MG's activities.
- ! Continue to facilitate the decreasing trend in average turnaround time.
- ! Increase the use of integrated multi-media components (electronic supplementary file option available for authors), which was successfully established in 2014.

IV. "What can I do to help MG?"

- ! **Cite papers from Mathematical Geosciences (particularly from 2015 and on) where it is warranted, as much as possible** - as we all publish in other Thomson Reuters (formerly ISI) indexed journals. Please do not forget and please ask your colleagues as well, or when you review papers.
- ! **Actively assist in attracting new authors** – young, promising scientists as well as new colleagues, in our established and/or related fields.
- ! **Provide visibility to Mathematical Geosciences when and where possible** - add in a most visible place of your personal and/or institutional website "Mathematical Geosciences – an international journal" and a link to the website <http://www.springer.com/11004>. **STILL: More help is needed.**
- ! **Assist in generating new collaborations** with other professional organizations, as well as universities and research organizations. We attempted a better link to SIAM, with limited success.
- ! **Assist in new Special Issues** that serve to expand the journal to other related fields. The 2015 SI is an example.
- ! **Suggest areas for REVIEW PAPERS and Teaching Aids**

! **DOES YOUR INSTITUTION/LIBRARY SUBSCRIBE TO Mathematical Geosciences?**

*Roussos Dimitrakopoulos, Editor-in-Chief
Available for your questions and getting involved at:
Roussos.Dimitrakopoulos@gmail.com*

Newsletter and Website

The last two Newsletters averaged 16 pages. NL91 was more voluminous at 20 pages containing the candidate profiles for the 2016 election. Printing and mailing by Regina in Freiberg functioned smoothly again as in previous years.

The IAMG website has worked well. There have been a few problems with linking to the MG Springerlink website, since Springer changed the URL. A major change came in November when Matt Deir at Dragonfly reported that the site looked like it was compromised again. Dragonfly reverted to a backup and reset some administrator passwords. They also moved iamg.org to use encryption - https vs http - which increased the hosting costs by \$25 / per month, but should help to reduce the number of these malicious compromising events. The IAMG Executive approved the added expenditure. This upgrade was completed in December 2015.

Best regards,
Harald

Harald S. Poelchau
IAMG Newsletter & Website Editor

INTERNATIONAL ASSOCIATION
FOR MATHEMATICAL GEOSCIENCES

Treasurer's Report
David Collins

August 28, 2016
Cape Town
South Africa

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

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INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES
2015 Treasurer's Review

Assets:

US Bank Bancorp Investments:

General funds	\$1,141,725.55	(June 30, 2016)
Chayes funds	\$100,327.77	(June 30, 2016)

US Bank checking accounts:

General funds	\$ 39,044.14	(June 30, 2016)
Membership account	\$ 2,712.69	(June 30, 2016)

PayPal account \$ 9,837.00 (June 30, 2016)

TOTAL \$1,293,647.15 (June 30, 2016)

Five-year history:	Net Assets	Dividends
December 31, 2011	\$1,006,836	
December 31, 2012	\$1,119,111	
December 31, 2013	\$1,253,626	\$49,436
December 31, 2014	\$1,298,797	\$55,041
December 31, 2015	\$1,253,340	\$53,644

Royalties received:

Year	C&G	MG	NRR	Total
2011	\$67,241	\$17,948	\$3,321	\$88,512
2012	\$84,389	\$17,571	\$4,427	\$106,357
2013	\$160,553*	\$15,843	\$4,457	\$180,853
2014	\$70,000	\$15,608	\$3,641	\$89,249
2015	\$70,000	\$14,564	\$3,563	\$88,127
2016	\$70,000**	\$10,701	\$3,352	\$84,053

Membership and member subscriptions to the journals:

Year	Members	C&G***	MG	NRR
2011	603	95	146	30
2012	766	83	119	23
2013	769	73	112	21
2014	740	58	96	23
2015	806	57	82	14

*includes \$90,553 of 2012 royalties and \$70,000 of 2013 royalties

**includes \$17,500 due in September 2016 and \$17,500 due in December 2016

***regular, student, and electronic combined

International Association for Mathematical Geosciences

08/08/16

Cash Flows

Accrual Basis

January through December 2015

	Jan - Dec 15
Income	
IAMG2015 - Conference Fee	
Sponsorships	3,501.17
IAMG2015 - Conference Fee - Other	17,642.46
Total IAMG2015 - Conference Fee	21,143.63
Membership Dues	84.00
Memberships & Subscriptions	817.50
PayPal-Deposits	
Transfer From PayPal Account	125,000.00
Total PayPal-Deposits	125,000.00
Royalties	
Computers & Geosciences (Elsevi	70,000.00
Mathematical Geology (Springer)	14,564.26
Monographs (Oxford)	96.99
Natural Resources (Springer)	3,563.00
Total Royalties	88,224.25
Total Income	235,269.38
Expense	
Accounting Services	6,930.00
Affiliations	
Dues	228.59
Partnerships	5,602.69
Total Affiliations	5,831.28
Bank Charge	
Printing checks	31.45
Service charge	3,221.40
Total Bank Charge	3,252.85
C&G Research Scholarship	4,083.34
Conference Support	
Danid Krige Geostatistical Conf	2,229.25
Conference Support - Other	2,793.36
Total Conference Support	5,022.61
Distinguished Lecturer	13,272.35
IAMG-Office	
Management Service	9,971.08
Total IAMG-Office	9,971.08
IAMG Credit Card Acct 5621	347.88
IAMG EDGE Check Card acct 8797	890.17
IAMG Outreach Grant	2,211.43
IAMG2015	
Catering	55,142.69
City Tour	420.96
Conference bags	1,613.59
Dinnwr Music	1,195.01
Keynote - Travel Expenses	2,602.57
Miscellaneous expenses	2,422.65
Printing Program & Abstracts	5,138.84
Reimbursement - conference fees	1,388.73
Short Course	450.00
Student Assistants	7,133.49
Total IAMG2015	77,508.53

International Association for Mathematical Geosciences

Cash Flows

January through December 2015

08/08/16

Accrual Basis

	Jan - Dec 15
IAMG2017	
Venue	3,969.11
Total IAMG2017	3,969.11
Internal Revenue Services	
Administrative Fee	85.00
Total Internal Revenue Services	85.00
MG Student Award	1,500.00
Newsletter	4,087.42
NRR Student Award	500.00
Outreach	9,184.77
Promotion & Booths	
Booth Expenses	1,643.42
Booth Travel Support	2,000.00
Promotion & Booths - Other	350.00
Total Promotion & Booths	3,993.42
Publishers Subscriptions	
C&G Subscriptions - Elsevier	3,025.00
MathGeo Subscriptions -Springer	5,085.00
NRR Subscriptions - Springer	330.00
Total Publishers Subscriptions	8,440.00
Student Chapter	
Freiberg	4,517.24
Sun Yat-Sen University	1,500.00
The Netherlands (ITC)	2,000.00
Total Student Chapter	8,017.24
Student Research Award	12,971.48
Student Travel Grant	8,598.04
Subscriptions	880.00
Travel, Officers & Members	22,492.65
Treasurer Operating Expenses	
Miscellaneous	53.46
Office supplies	139.88
PO Box	66.00
Postage	7.45
Software	87.23
Total Treasurer Operating Expenses	354.02
Total Expense	214,394.67
Net Income	20,874.71

**International Association for Mathematical Geosciences
Cash Flows**

08/17/16

Accrual Basis

January 1 through August 17, 2016

	Jan 1 - Aug 17, 16
Income	
Memberships & Subscriptions	284.00
Reimbursements to IAMG	3,163.79
Royalties	
Computers & Geosciences (Elsevi)	35,000.00
Mathematical Geology (Springer)	10,700.60
Monographs (Oxford)	106.76
Natural Resources (Springer)	3,352.00
Total Royalties	49,159.36
USbancorp Investments-Transfers	
Chayes Fund Money Market Acct	10,000.00
Money Market Account	24,900.00
Total USbancorp Investments-Transfers	34,900.00
Total Income	87,507.15
Expense	
35th-IGC	
Registration	791.86
Total 35th-IGC	791.86
Accounting Services	6,810.00
Affiliations	
Partnerships	5,831.35
Total Affiliations	5,831.35
Awards	
Chayes	7,000.00
Chayes Travel Support	2,631.38
Krumbein Travel Support	3,628.60
Total Awards	13,259.98
Bank Charge	
Intl Processing Fee	187.05
Service charge	1,030.65
Total Bank Charge	1,217.70
Conference Support	
CODAWORK2017	2,850.27
GeoENV2016	2,801.86
GEOSTAT2016	5,580.03
Total Conference Support	11,232.16
Distinguished Lecturer	3,939.34
IAMG-Office	
Management Service	8,555.92
Total IAMG-Office	8,555.92
IAMG2015	
Catering	2,188.99
Reimbursement - conference fees	295.00
Short Course	0.00
Total IAMG2015	2,483.99
IAMG2017	
Seed Funding	15,585.96
Total IAMG2017	15,585.96

International Association for Mathematical Geosciences

Cash Flows

January 1 through August 17, 2016

08/17/16

Accrual Basis

	Jan 1 - Aug 17, 16
Matheron Lecturer	2,482.16
Newsletter	2,570.85
Outreach	1,410.00
Promotion & Booths	
Booth Expenses	204.90
Promotion & Booths - Other	900.00
Total Promotion & Booths	1,104.90
Publishers Subscriptions	
MathGeo Subscriptions -Springer	3,015.00
Monographs - Oxford UP	145.00
NRR Subscriptions - Springer	770.00
Total Publishers Subscriptions	3,930.00
Student Chapter	
Stanford	1,000.00
Wyoming	2,000.00
Total Student Chapter	3,000.00
Student Travel Grant	1,423.42
Travel, Officers & Members	14,655.85
Treasurer Operating Expenses	
Miscellaneous	894.00
Office supplies	202.37
PO Box	70.00
Postage	9.80
Software	322.65
Total Treasurer Operating Expenses	1,498.82
Website	
Domain Name Registration	1,511.08
Dragonfly IT Inc	1,799.52
Positive SSL certificate	59.88
Total Website	3,370.48
Total Expense	105,154.74
Net Income	-17,647.59

**INTERNATIONAL ASSOCIATION
FOR MATHEMATICAL GEOSCIENCES**

Financial Statements

Years ended December 31, 2015 and 2014

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

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INDEPENDENT ACCOUNTANT'S REVIEW REPORT

Officers and Council
International Association for Mathematical Geosciences

We have reviewed the accompanying financial statements of the International Association for Mathematical Geosciences (a not-for-profit association), which comprise the statements of assets, liabilities and net assets – modified cash basis as of December 31, 2015 and 2014, and the related statements of revenues collected, expenses paid and changes in net assets - modified cash basis for the years then ended, and the related notes to the financial statements. A review includes primarily applying analytical procedures to management's financial data and making inquiries of management. A review is substantially less in scope than an audit, the objective of which is the expression of an opinion regarding the financial statements as a whole. Accordingly, we do not express such an opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the modified cash basis of accounting; this includes determining that the modified cash basis of accounting is an acceptable basis for the preparation of financial statements in the circumstances. Management is also responsible for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the financial statements that are free from material misstatement whether due to fraud or error.

Accountant's Responsibility

Our responsibility is to conduct the review engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the American Institute of Certified Public Accountants. Those standards require us to perform procedures to obtain limited assurance as a basis for reporting whether we are aware of any material modifications that should be made to the financial statements for them to be in accordance with the modified cash basis of accounting, as described in Note 1. We believe that the results of our procedures provide a reasonable basis for our conclusion.

Accountant's Conclusion

Based on our reviews, we are not aware of any material modifications that should be made to the accompanying financial statements in order for them to be in accordance with the modified cash basis of accounting as described in Note 1.

Basis of Accounting

We draw attention to Note 1 of the financial statements, which describes the basis of accounting. The financial statements are prepared in accordance with the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our conclusion is not modified with respect to this matter.

Mize Houser Company PA

Certified Public Accountants
Lawrence, Kansas

July 8, 2016

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES
 STATEMENTS OF ASSETS, LIABILITIES AND NET ASSETS - MODIFIED CASH BASIS
 December 31, 2015 and 2014

ASSETS		<u>2015</u>	<u>2014</u>
CASH		\$ 115,636	\$ 96,394
INVESTMENTS		1,137,435	1,201,683
PROPERTY AND EQUIPMENT			
Equipment and software		2,612	2,612
Accumulated depreciation		<u>[2,343]</u>	<u>[1,892]</u>
		<u>269</u>	<u>720</u>
 Total Assets		 <u>\$ 1,253,340</u>	 <u>\$ 1,298,797</u>
 NET ASSETS			
NET ASSETS			
Unrestricted		<u>\$ 1,253,340</u>	<u>\$ 1,298,797</u>
 Total Net Assets		 <u>\$ 1,253,340</u>	 <u>\$ 1,298,797</u>

See accompanying notes to the financial statements
 and independent accountant's review report.

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

STATEMENTS OF REVENUES COLLECTED, EXPENSES PAID
AND CHANGES IN NET ASSETS - MODIFIED CASH BASIS
Years Ended December 31, 2015 and 2014

	<u>2015</u>	<u>2014</u>
REVENUES		
Membership and subscriptions	\$ 14,163	\$ 15,753
Conference fees	126,451	-
Royalties	<u>88,224</u>	<u>89,379</u>
Total Revenues	<u>228,838</u>	<u>105,132</u>
EXPENSES		
Member and publication	30,794	24,956
Grants and awards	55,599	46,284
Conferences, meetings, and travel - net	96,986	20,462
Website and computer	-	560
Legal and accounting	7,284	5,405
Contracted services	19,156	12,478
Depreciation	451	732
Other expense	<u>9,300</u>	<u>2,960</u>
Total Expenses	<u>219,570</u>	<u>113,837</u>
Income [loss] from activities	<u>9,268</u>	<u>[8,705]</u>
OTHER INCOME [EXPENSE]		
Investment return	[62,313]	52,296
Other income	<u>7,588</u>	<u>1,580</u>
	<u>[54,725]</u>	<u>53,876</u>
CHANGES IN NET ASSETS	[45,457]	45,171
NET ASSETS, beginning	<u>1,298,797</u>	<u>1,253,626</u>
NET ASSETS, ending	<u>\$ 1,253,340</u>	<u>\$ 1,298,797</u>

See accompanying notes to the financial statements
and independent accountant's review report.

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

NOTES TO FINANCIAL STATEMENTS Years Ended December 31, 2015 and 2014

Note 1 - Summary of Significant Accounting Policies

The accounting policies described below have been followed on a consistent basis.

Nature of Activities

International Association for Mathematical Geosciences (the Association) is a not-for-profit organization established on August 22, 1968 to promote international cooperation in the application and use of mathematics in geological research and technology. The Association's main sources of revenue are subscriptions, memberships, conferences, and royalties.

Basis of Accounting

The Association prepares its financial statements on the modified cash basis method of accounting. This modified cash basis differs from accounting principles generally accepted in the United States of America since revenues are recognized when collected rather than when earned, and expenses are recognized when paid rather than when the obligation is incurred. Generally, noncash transactions are not recognized in the financial statements, but the Association has elected to record its noncash unrealized gains and losses on its investments in the statement of revenues collected, expenses paid and changes in net assets - modified cash basis. This exception is a departure from the cash basis of accounting, but is in accordance with accounting principles generally accepted in the United States of America.

Basis of Presentation

The Association reports information regarding its financial position and activities according to three classes of net assets; unrestricted net assets, temporarily restricted net assets, and permanently restricted net assets.

Investments

Investments consist of mutual funds. Investments are stated at fair value. Realized and unrealized gains and losses, dividends and interest on investments are reflected in the statement of revenues collected, expenses paid and changes in net assets - modified cash basis.

Investment securities are exposed to various risks, such as interest rate, market fluctuation and credit risk. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in risks in the near term could materially affect investments and the amounts reported in the statements of revenues collected, expenses paid and changes in net assets.

Fair Value Measurement

Assets recorded at fair value on the statement of assets, liabilities and net assets - modified cash basis, are categorized based upon the level of observability associated with the inputs used to measure their fair value. Fair value is defined as the amount that would be received to sell an asset in an orderly transaction between market participants at the measurement date. The availability of observable inputs is affected by a variety of factors, including the type of asset and the transparency of market transactions. To the extent that fair value is based on inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment.

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

NOTES TO FINANCIAL STATEMENTS
Years Ended December 31, 2015 and 2014

Note 1 - Summary of Significant Accounting Policies (Continued)

The three-level hierarchy for fair value measurements is defined as follows:

- Level 1 – Inputs are unadjusted, quoted prices in active markets for identical assets at the measurement date.
- Level 2 – Inputs are other than quoted prices in active markets that are observable for the asset, either directly or indirectly, including inputs in markets that are not considered to be active.
- Level 3 – Inputs are unobservable and significant to the asset and include situations where there is little, if any, market activity.

Inputs are used in applying the various valuation techniques and broadly refer to the assumptions that market participants used to make valuation decisions, including assumptions about risk. Inputs may include market price information, volatility statistics, specific and broad credit data, liquidity statistics, and other factors. The classification of a financial asset within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. However, the determination of what constitutes “observable” requires significant judgment by management. Management considers observable data to be that market data which is readily available, regularly distributed or updated, reliable and verifiable, not proprietary and provided by multiple, independent sources that are actively involved in the relevant market. The categorization of a fund within the hierarchy is based upon the pricing transparency of that fund and does not necessarily correspond to management’s perceived risk of that fund.

Publicly-held equity investments that are traded on an active exchange are valued at the quoted market prices based on the last sale price on the measurement date. Quoted market prices in an active market are classified as a Level 1 input. If an active market does not exist for such publicly-held equity investments, alternate valuation models using Level 2 or Level 3 inputs may be used to determine fair value.

Contributions receivable are valued at the present value of estimated future cash flows on the measurement date and are classified as a Level 3 input in the fair value hierarchy.

Property and Equipment

Property and equipment are recorded at cost. Maintenance and repairs are charged to expense as incurred; major renewals and betterments are capitalized. When items of property or equipment are sold or retired, the related cost and accumulated depreciation are removed from the accounts and any gain or loss is included in income. Depreciation is provided on the accelerated tax-basis methods over the estimated useful lives of the respective assets.

Contributions

Contributions received by the Association are recorded as unrestricted, temporarily restricted, or permanently restricted support depending on the existence or nature of any donor restrictions.

As of the financial statement date, there are no contributions on which restrictions, permanent or temporary, have been imposed.

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

NOTES TO FINANCIAL STATEMENTS
Years Ended December 31, 2015 and 2014

Note 1 - Summary of Significant Accounting Policies (Continued)

Income Taxes

The organization is exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code and from state income tax under applicable state law. Income from unrelated activities is subject to income tax under the Internal Revenue Code. The Association reported no tax liability for 2015.

The Association's present accounting policy for the evaluation of uncertain tax positions is to review those positions on an annual basis. A liability would be recorded in the financial statements during the period which, based on all available evidence, management believes it is more likely than not that the tax position would not be sustained upon examination by taxing authorities and the liability would be incurred by the Association.

Note 2 - Investments

The Association's investments consist of marketable securities that are valued at fair market value as of December 31:

	Assets at Fair Value			
<u>2015</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Marketable securities available for sale:				
Mutual funds:				
Fixed income	\$ 985,388	\$ -	\$ -	\$ 985,388
Equity-domestic	<u>152,047</u>	<u>-</u>	<u>-</u>	<u>152,047</u>
Total assets at fair value	<u>\$ 1,137,435</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,137,435</u>
<u>2014</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Marketable securities available for sale:				
Mutual funds:				
Fixed income	\$ 1,072,130	\$ -	\$ -	\$ 1,072,130
Equity-domestic	<u>129,553</u>	<u>-</u>	<u>-</u>	<u>129,553</u>
Total assets at fair value	<u>\$ 1,201,683</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,201,683</u>

The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or model-based valuation techniques may require the transfer of financial instruments from one fair value level to another. In such instances, the transfer is reported at the beginning of the reporting period.

We evaluated the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets. For the year ended December 31, 2015, there were no significant transfers in or out of Levels 1, 2 or 3.

INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOSCIENCES

NOTES TO FINANCIAL STATEMENTS
Years Ended December 31, 2015 and 2014

Note 2 - Investments (Continued)

The following schedule summarizes the investment return and its classification in the statement of activities for the years ended December 31:

	<u>2015</u>	<u>2014</u>
Dividend and interest income	\$ 55,046	\$ 51,717
Capital gain distributions	6,888	12,177
Realized gains [losses]	[759]	-
Unrealized gains [losses]	<u>[123,488]</u>	<u>[11,598]</u>
 Total investment return	 <u>\$ [62,313]</u>	 <u>\$ 52,296</u>

Note 3 - Property and Equipment

Major classifications of assets subject to depreciation are as follows:

	<u>2015</u>	<u>2014</u>
Equipment and software	\$ 2,612	\$ 2,612
Less: accumulated depreciation	<u>2,343</u>	<u>1,892</u>
 Total property and equipment	 <u>\$ 269</u>	 <u>\$ 720</u>

Note 4 - Concentration of Credit Risk

Financial accounting standards require disclosure of information about financial instruments with off balance sheet risk and financial instruments with concentrations of credit risk.

Financial instruments which potentially subject the Association to concentrations of credit risk consist principally of cash. The Association places its cash and cash equivalents with financial institutions and investment brokers. The Association does not have any bank depository accounts with balances in excess of FDIC depository insurance coverage. Investments with investment brokers are not covered by FDIC depository insurance coverage and are, therefore, exposed to credit risk to the extent of the cash deposited in these accounts. The Association's credit exposure was \$49,517 and \$47,583 as of December 31, 2015 and 2014, respectively.

Note 5 - Subsequent Events

During the year ended December 31, 2015, the entity evaluated subsequent events through July 8, 2016 and no subsequent events requiring disclosure in the financial statements were noted. The financial statements were available to be issued on July 8, 2016.



Brokerage Statement

INTL ASSN FOR MATHEMATICAL
GEOSCIENCES
DAVID R COLLINS

06/01/2016 - 06/30/2016 | Account Number: 25536865 | Page 1 of 10

GENERAL FUND

Make Possible Happen! Successful individuals often have complex financial lives with multiple goals - including retirement planning. RealSteps>Retirement, our goals-based retirement planning approach, can help you reach your goals step-by-step. Contact your financial professional to discuss the steps you can take today to work toward a more secure tomorrow.

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Your Financial Professionals:
KIPP NOE
785-865-0277

Investments Connect
Representative: 800-888-4700
usbank.com

Inside You'll Find:

- Portfolio At A Glance.....2
- Portfolio Summary.....3
- Holdings.....4
- Account Activity.....5
- General/Important Information.....7

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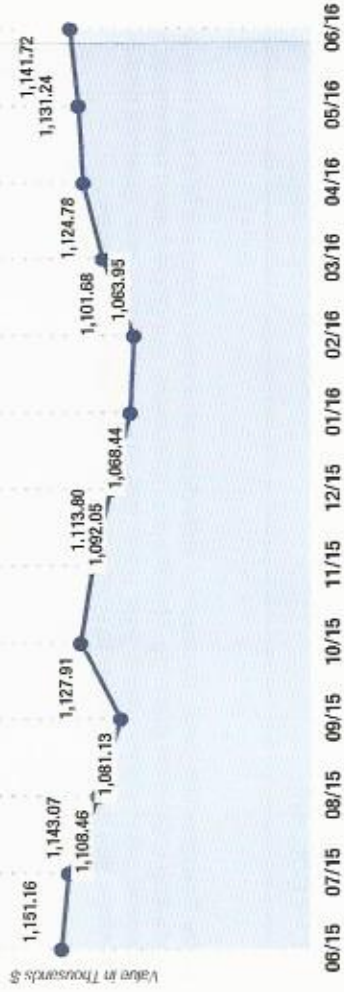


Portfolio At A Glance

Account Activity

	This Period	Year-to-Date
Beginning Value	\$1,131,249.24	\$1,092,053.45
Total Deposits & Additions	\$0.00	\$0.00
Total Withdrawals & Deductions	\$0.00	\$0.00
Net Change to Portfolio Value	\$10,476.31	\$49,672.10
ENDING VALUE	\$1,141,725.55	\$1,141,725.55

Portfolio Value



Income and Expense Summary

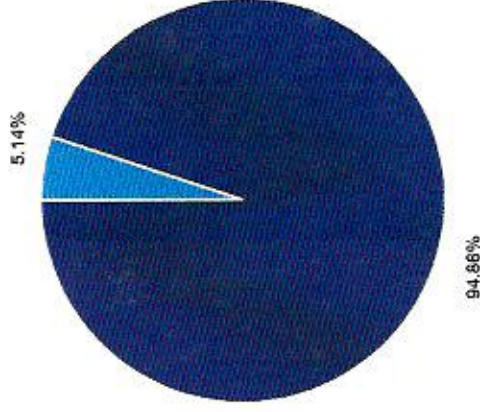
	This Period	Year-to-Date
Taxable Income		
Dividends	\$3,941.31	\$20,976.28
Interest	\$0.00	\$0.00
Other Income	\$0.00	\$0.00
Total Taxable Income	\$3,941.31	\$20,976.28
Tax-Exempt Income		
Dividends	\$0.00	\$0.00
Interest	\$0.00	\$0.00
Other Income	\$0.00	\$0.00
Total Tax-Exempt Income	\$0.00	\$0.00
TOTAL INCOME	\$3,941.31	\$20,976.28

Realized Gain/Loss

	This Period	Year-to-Date
Net Short Term	\$0.00	-\$2,123.76
Net Long Term	\$0.00	-\$20,821.94
TOTAL GAIN/LOSS	\$0.00	-\$22,945.70

Portfolio Summary

	Market Value
5.14% Cash/Cash Equivalents	\$58,637.63
Money Markets	\$58,637.63
94.86% Mutual Funds/ETFs	\$1,083,087.92
Domestic Fixed Income	\$922,559.86
Large Domestic Stocks	\$86,030.29
Other	\$74,497.77
TOTAL MARKET VALUE	\$1,141,725.55



Holdings

Security Type	Account Type	Quantity	Current Price	Market Value	Total Cost/ (Proceeds)	Unrealized Gain/Loss	Estimated Annual Income	Current Yield
CASH/CASH EQUIVALENTS								
CUSIP: 31846V500 CLASS A PRIME OBLIGATIONS	CASH	58,637.630	1.00	\$58,637.63				0.00%
				\$58,637.63				
MUTUAL FUNDS/ETFs								
SYMBOL: ABRZX INVESCO FUNDS BALANCE RISK ALLOCATN FD CL A FIRST ACQR'D: 04/12/2013 QTY: 2,962.963 VALUE: \$40,000.00	CASH	6,604.413	11.2800000	\$74,497.77	\$85,594.76	(\$11,096.99)	\$1,620.06	2.17%
SYMBOL: EVGOX EATON VANCE FUNDS GOVERNMENT OBLIGATIONS FD CL A FIRST ACQR'D: 04/12/2013 QTY: 8,905.013 VALUE: \$67,500.00	CASH	9,330.610	6.5000000	\$60,650.26	\$70,467.31	(\$9,817.05)	\$2,050.45	3.38%
SYMBOL: FKINX FRANKLIN TEMPLETON FUNDS INCOME FUND CL A	CASH	216,400.382	2.1800000	\$471,752.83			\$25,968.05	5.50%
SYMBOL: LCCAX COLUMBIA FUNDS CONTRARIAN CORE FUND CL A FIRST ACQR'D: 07/14/2015 QTY: 4,023.868 VALUE: \$90,778.47	CASH	4,023.868	21.3800000	\$86,030.29	\$90,778.47	(\$4,748.18)	\$4,745.35	5.52%
SYMBOL: PGBAX PRINCIPAL FUNDS GLOBAL DIVERSIFIED INCOME FD A FIRST ACQR'D: 09/21/2012 QTY: 6,891.799 VALUE: \$100,000.00	CASH	14,185.256	13.5200000	\$191,784.66	\$207,351.09	(\$15,566.43)	\$8,936.71	4.66%
SYMBOL: PONAX PINCO FUNDS INCOME FUND CL A FIRST ACQR'D: 02/19/2016 QTY: 16,683.946 VALUE: \$199,206.32	CASH	16,683.946	11.8900000	\$198,372.11	\$199,206.32	(\$834.21)	\$10,330.70	5.21%
				\$1,063,087.92				

** Some cost basis data may have been obtained from outside sources and cannot be verified by USBI. Please refer to your trade confirmations for accurate cost basis information. Trade confirmations should be retained for tax purposes. USBI uses FIFO (First In First Out) as the default when calculating your cost basis for individual securities. If you wish to change the cost basis method, please contact your Financial Advisor or Investments Connect. Once a trade settles, no change to the cost basis methodology can be made.



INTL ASSN FOR MATHEMATICAL GEOSCIENCES, DAVID R COLLINS

Brokerage Statement

06/01/2016 - 06/30/2016 | Account Number: 25536865 | Page 5 of 10

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Holdings (con't)

HOLDINGS TOTAL	\$1,141,725.55	\$53,651.32
----------------	----------------	-------------

Account Activity

Security Description	Settlement Date	Trade Date	Transaction	Quantity	Price	Debit Amount	Credit Amount
Cash Account							
INCOME							
SYMBOL: PONAX PONAX DIVIDEND	06/02/16	06/02/16	Dividend				\$860.96
SYMBOL: EVGOX EVGOX DIVIDEND	06/02/16	06/02/16	Dividend				\$170.86
SYMBOL: PGBAX PGBAX DIVIDEND	06/02/16	06/02/16	Dividend				\$744.73
SYMBOL: FKINX FKINX DIVIDEND	06/03/16	06/03/16	Dividend				\$2,164.00
TOTAL INCOME							\$3,940.55

Money Market Account

Money Market Beginning Balance

DEPOSIT: PRIME OBLIGATIONS-A	06/03/16	06/03/16	Bought	1,776.55	1.00		\$54,696.32
DEPOSIT: PRIME OBLIGATIONS-A	06/06/16	06/06/16	Bought	2,164.00	1.00		\$1,776.55
							\$2,164.00

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1707-01-00-1063446-0003-0343752

Account Activity (con't)

Security Description	Settlement Date	Trade Date	Transaction	Quantity	Price	Debit Amount	Credit Amount
Money Market Account (con't)							
.01500%30 DAYS,BAL= 58157	06/30/16	06/30/16	Dividend Reinvested	0.76	1.00		\$0.76
MONEY MARKET ENDING BALANCE							\$58,637.63



Brokerage Statement

INTL ASSN FOR MATHEMATICAL
GEOLOGY

06/01/2016 - 06/30/2016 | Account Number: 23138936 | Page 1 of 9

CHAYES FUND

Make Possible Happen! Successful individuals often have complex financial lives with multiple goals - including retirement planning. RealSteps>Retirement, our goals-based retirement planning approach, can help you reach your goals step-by-step. Contact your financial professional to discuss the steps you can take today to work toward a more secure tomorrow.

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Inside You'll Find:

- Portfolio At A Glance.....2
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- Account Activity.....5
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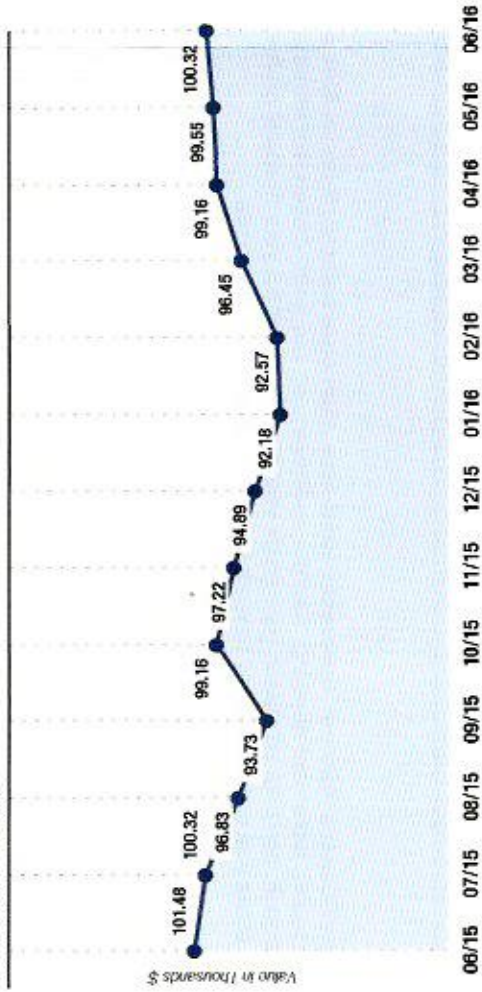


Portfolio At A Glance

Account Activity

	This Period	Year-to-Date
Beginning Value	\$99,552.16	\$94,898.81
Total Deposits & Additions	\$0.00	\$0.00
Total Withdrawals & Deductions	\$0.00	\$0.00
Net Change to Portfolio Value	\$775.61	\$5,428.96
ENDING VALUE	\$100,327.77	\$100,327.77

Portfolio Value



Income and Expense Summary

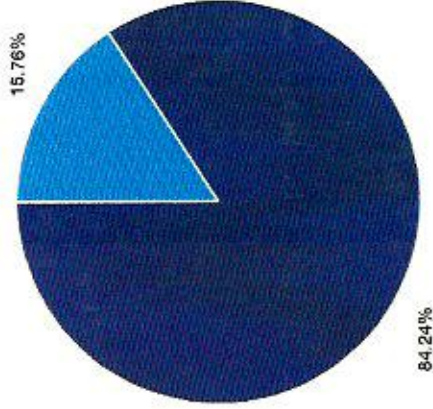
	This Period	Year-to-Date
Taxable Income		
Dividends	\$387.91	\$2,327.39
Interest	\$0.00	\$0.00
Other Income	\$0.00	\$0.00
Total Taxable Income	\$387.91	\$2,327.39
Tax-Exempt Income		
Dividends	\$0.00	\$0.00
Interest	\$0.00	\$0.00
Other Income	\$0.00	\$0.00
Total Tax-Exempt Income	\$0.00	\$0.00
TOTAL INCOME	\$387.91	\$2,327.39

Realized Gain/Loss

	This Period	Year-to-Date
Net Short Term	\$0.00	\$0.00
Net Long Term	\$0.00	\$0.00
TOTAL GAIN/LOSS	\$0.00	\$0.00

Portfolio Summary

	Market Value
15.76% Cash/Cash Equivalents	\$15,809.88
Money Markets	\$15,809.88
84.24% Mutual Funds/ETFs	\$84,517.89
Domestic Fixed Income	\$84,517.89
TOTAL MARKET VALUE	\$100,327.77



Holdings

Security Type	Account Type	Quantity	Current Price	Market Value	Total Cost/ (Proceeds)	Unrealized Gain/Loss	Estimated Annual Income	Current Yield
CASH/CASH EQUIVALENTS								
CUSIP: 31846V500 CLASS A PRIME OBLIGATIONS	CASH	15,809.880	1.00	\$15,809.88				0.00%
				\$15,809.88				
MUTUAL FUNDS/ETFs								
SYMBOL: FKIX FRANKLIN TEMPLETON FUNDS INCOME FUND CL A FIRST ACQR'D: 01/26/2005 QTY: 27,149.492 VALUE: \$68,688.21	CASH	38,769.677	2.1800000	\$84,517.89	\$96,499.00	(\$11,981.11)	\$4,652.36	5.50%
				\$84,517.89				
				\$100,327.77				
				\$4,652.36				
HOLDINGS TOTAL				\$100,327.77	\$4,652.36			

* Some cost basis data may have been obtained from outside sources and cannot be verified by USBI. Please refer to your trade confirmations for accurate cost basis information. Trade confirmations should be retained for tax purposes. USBI uses FIFO (First In First Out) as the default when calculating your cost basis for individual securities. If you wish to change the cost basis method, please contact your Financial Advisor or Investments Connect. Once a trade settles, no change to the cost basis methodology can be made.

Account Activity

Security Description	Settlement Date	Trade Date	Transaction	Quantity	Price	Debit Amount	Credit Amount
Cash Account							
INCOME							
SYMBOL: FKIX FKIX DIVIDEND	06/03/16	06/03/16	Dividend				\$387.70
TOTAL INCOME							\$387.70
Money Market Account							
Money Market Beginning Balance							
DEPOSIT: PRIME OBLIGATIONS-A	06/06/16	06/06/16	Bought	387.70	1.00	\$387.70	
.01500%30 DAYS,BAL=	06/30/16	06/30/16	Dividend Reinvested	0.21	1.00	\$0.21	
MONEY MARKET ENDING BALANCE							\$15,809.88





P.O. Box 1800
Saint Paul, Minnesota 55101-0800

9185 TRN

Y ST01

Business Statement

Account Number:

0 043 4391 9181

Statement Period:

Jun 1, 2016

through

Jun 30, 2016

Page 1 of 3



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IAMG

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LAWRENCE KS 66044-7504



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INFORMATION YOU SHOULD KNOW

Effective May 16th, 2016, the "Your Deposit Account Agreement" booklet includes a number of updates. The changes are slight, but may affect your rights. As of May 16th, 2016 you may pick up copies at your local branch, view copies at usbank.com, or call 1-800-USBANKS (1-800-872-2657) for a copy. Please see the [Additional Information Section](#) of this statement for the main updates that were made to "Your Deposit Account Agreement" booklet.

New Information for Consumer Report Disputes:

Effective May 16, 2016, the "Your Deposit Account Agreement" booklet was updated with new information regarding disputes for Consumer Reporting Agencies (CRA). Changes include:

- Individuals may dispute inaccurate information reported to a CRA by calling 844.624.8230 or by writing to:
U.S. Bank Attn: CRA Management, P.O. Box 3447, Oshkosh, WI 54903-3447
- The information required to review the dispute, including: customer name, address and telephone number; the account number; the specific information being disputed; the explanation of why it is incorrect; and any supporting documentation (e.g., affidavit of identity theft), if applicable.

The updates are reflected in the following sections within the booklet:

- A new section for "Consumer Report Disputes" was added to the Terms Applicable to Deposit Accounts.
- The existing section regarding disputes of the Consumer Reserve Line of Credit Agreement was updated to "Consumer Report Disputes."

New Terms and Conditions will be in effect for U.S. Bank business customers on June 30, 2016. You can view the new Terms and Conditions at usbank.com/tmtermsandconditions. Log in to this secure website using the access code: terms2016. If you are unable to access this information for any reason, please contact your Branch Banker, Relationship Manager, Treasury Management Consultant or Commercial Customer Service Team for assistance.



IAMG
PO BOX 442504
LAWRENCE KS 66044-7504

Business Statement

Account Number:
0 043 4391 9181

Statement Period:
Jun 1, 2016
through
Jun 30, 2016

Page 2 of 3



GOLD BUSINESS CHECKING

Member FDIC

Account Number 0-043-4391-9181

U.S. Bank National Association

Account Summary

	# Items	\$	
Beginning Balance on Jun 1			38,388.07
Other Deposits	1		3,352.00
Card Withdrawals	2		204.90-
Other Withdrawals	1		218.45-
Checks Paid	3		2,272.58-
Ending Balance on Jun 30, 2016		\$	39,044.14

Other Deposits

Date	Description of Transaction	Ref Number	\$	Amount
Jun 24	Electronic Deposit REF=16176000571000 N	From SPRINGER SBM LLC 9000449246PAYMENT	\$	3,352.00 ✓
Total Other Deposits			\$	3,352.00

Card Withdrawals

Card Number: xxxx-xxxx-xxxx-8797

Date	Description of Transaction	Ref Number	\$	Amount
Jun 20	Debit Purchase - VISA 35TH INTERNATION *****8797 Exchg Amt: \$198.94 Orig Curr:3,003.90	On 061516 PRETORIA REF # 74548586169000209000370 Currency Type: RAND	9000209000	\$ 198.94- ✓
Jun 20	Intl Processing Fee 35TH INTERNATION *****8797	On 061516 PRETORIA REF # 74548586169000209000 ZA1	9000209000	5.96- ✓
Card 8797 Withdrawals Subtotal			\$	204.90-
Total Card Withdrawals			\$	204.90-

Other Withdrawals

Date	Description of Transaction	Ref Number	\$	Amount
Jun 14	Analysis Service Charge	1400000000	\$	218.45- ✓
Total Other Withdrawals			\$	218.45-

Checks Presented Conventionally

Check	Date	Ref Number	Amount	Check	Date	Ref Number	Amount
0690	Jun 13	8052836465	121.00 ✓	0692	Jun 22	8651320644	102.62 ✓
0691	Jun 3	9253824672	2,048.96 ✓	Conventional Checks Paid (3)			
							\$ 2,272.58-

Balance Summary

Date	Ending Balance	Date	Ending Balance	Date	Ending Balance
Jun 3	36,339.11	Jun 14	35,999.66	Jun 22	35,692.14
Jun 13	36,218.11	Jun 20	35,794.76	Jun 24	39,044.14

Balances only appear for days reflecting change.

ANALYSIS SERVICE CHARGE DETAIL

Account Analysis Activity for: May 2016

Account Number:	0-043-4391-9181	\$	218.45
Account Number:	1-455-7156-7059	\$	0.00
Analysis Service Charge assessed to	0-043-4391-9181	\$	218.45



IAMG
 PO BOX 442504
 LAWRENCE KS 66044-7504

Business Statement

Account Number:
 0 043 4391 9181

Statement Period:
 Jun 1, 2016
 through
 Jun 30, 2016

ANALYSIS SERVICE CHARGE DETAIL

(CONTINUED)

Service Activity Detail for Account Number 0-043-4391-9181

Service	Volume	Avg Unit Price	Total Charge
Depository Services			
Combined Transactions/Items	9		No Charge
Subtotal: Depository Services			0.00
SinglePoint			
SPE CDay Sum Mo Maint	2		No Charge
SPE Pday Det & Sum Mo Maint	2	7.47500	14.95
SPE Previous Day per Item Det	12		No Charge
SPE Token Mo Maintenance	2	3.00000	6.00
SPE Book Transfer Mo Maint	2		No Charge
SPE Stop Payment Mo Maint	2		No Charge
SPE Wires Mo Maintenance	2	5.00000	10.00
SP External User Message Sent	5		No Charge
Subtotal: SinglePoint			30.95
Wire Transfers			
Wire Monthly Maint Voice-Pin	1	7.50000	7.50
SPE Intl USD Non-Repetitive	2	30.00000	60.00
SPE Intl FX Non-Repetitive	4	30.00000	120.00
Subtotal: Wire Transfers			187.50
Fee Based Service Charges for Account Number 0-043-4391-9181			\$ 218.45

ADDITIONAL INFORMATION

Effective May 16th, 2016 the main updates to note in the revised "Your Deposit Account Agreement" booklet sections, and sub sections, include:

- Addition of the "Your Deposit Account Agreement" booklet being the sole and exclusive superseding agreement
- Addition of contact information within the Funds Transfers section
- Clarity on overdraft protection pertaining to dormant or escheated accounts and those linked to a U. S. Bank Reserve Line
- Update to rights within the section Statement and Notices; Your Address sub section
- Updated URL in the S.T.A.R.T Program Agreement for U.S. Bank Rewards Visa Card terms and conditions
- Addition of Consumer Report Disputes in the All Deposit Accounts section
- Updates to Consumer Report Disputes in the U.S. Bank Consumer Reserve Line Agreement
- Deletion of the definition of "debt" in the Set Off section
- Additional clarification from examples within the Security Interest In Accounts section
- Addition of Foreign Checks section
- Addition of Restricted Transactions sub section in Business Account Issues section
- Addition of Other Electronic Transactions types in both Business and Consumer Electronic Banking Agreements
- Addition of daily return limits for purchases made with your Consumer and Business Debit Card in the Electronic Banking Agreement sections
- Addition of payment limits received from third parties through your U.S. Bank Debit Card for both Business and Consumer customers in the Electronic Banking Agreement sections
- Removal of ATM Cards making cash advances in Limits On Transfers sections
- Deletion of Arbitration within the U.S. Bank Consumer Reserve Line Agreement
- Within the U.S. Bank Business Reserve Line Agreement additional clarity in Credit Review

As of May 16th, 2016 you may pick up copies at your local branch, view the updated booklet at usbank.com, or call 1-800-USBANKS (1-800-872-2657) for a copy.



P.O. Box 1800
Saint Paul, Minnesota 55101-0800

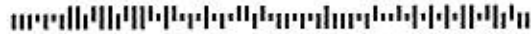
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Business Statement

Account Number:
1 455 7156 7059
Statement Period:
Jun 1, 2016
through
Jun 30, 2016

Page 1 of 2



000074184 01 AV 0.376 106481571620763 P
IAMG
PO BOX 442504
LAWRENCE KS 66044-7504



To Contact U.S. Bank

**24-Hour Business
Solutions:**

1-800-673-3555

**Telecommunications Device
for the Deaf:**

1-800-685-5065

Internet:

usbank.com

NEWS FOR YOU



U.S. Bank is proud to be named a "World's Most Ethical Company"
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INFORMATION YOU SHOULD KNOW

Effective May 16th, 2016, the "Your Deposit Account Agreement" booklet includes a number of updates. The changes are slight, but may affect your rights. As of May 16th, 2016 you may pick up copies at your local branch, view copies at usbank.com, or call 1-800-USBANKS (1-800-872-2657) for a copy. Please see the Additional Information Section of this statement for the main updates that were made to "Your Deposit Account Agreement" booklet.

New Information for Consumer Report Disputes:

Effective May 16, 2016, the "Your Deposit Account Agreement" booklet was updated with new information regarding disputes for Consumer Reporting Agencies (CRA). Changes include:

- Individuals may dispute inaccurate information reported to a CRA by calling 844.624.8230 or by writing to:
U.S. Bank Attn: CRA Management, P.O. Box 3447, Oshkosh, WI 54903-3447
- The information required to review the dispute, including: customer name, address and telephone number; the account number; the specific information being disputed; the explanation of why it is incorrect; and any supporting documentation (e.g., affidavit of identity theft), if applicable.

The updates are reflected in the following sections within the booklet:

- A new section for "Consumer Report Disputes" was added to the Terms Applicable to Deposit Accounts.
- The existing section regarding disputes of the Consumer Reserve Line of Credit Agreement was updated to "Consumer Report Disputes."

New Terms and Conditions will be in effect for U.S. Bank business customers on June 30, 2016. You can view the new Terms and Conditions at usbank.com/tmtermsandconditions. Log in to this secure website using the access code: terms2016. If you are unable to access this information for any reason, please contact your Branch Banker, Relationship Manager, Treasury Management Consultant or Commercial Customer Service Team for assistance.

SILVER BUSINESS CHECKING

U.S. Bank National Association

Account Summary

Member FDIC

Account Number 1-455-7156-7059

Beginning Balance on Jun 1	\$	2,712.69
Ending Balance on Jun 30, 2016	\$	2,712.69

International Association for Mathematical Geosciences		
Approved 2017 Operating Budget	2017	2016
INCOME		
Membership dues	6,300.00	6,000.00
Journal subscriptions	7,500.00	14,000.00
Donations		
Royalties:		
Mathematical Geosciences	10,500.00	15,500.00
Computers & Geosciences	61,750.00	60,000.00
Natural Resources Research	3,300.00	3,600.00
Monographs	100.00	120.00
<i>Budget Subtotal: Royalties</i>	<i>75,650.00</i>	<i>79,220.00</i>
C&G Research Scholarships grant	10,000.00	10,000.00
Reimbursement of Seed Money for IAMG2017	15,585.96	
Monograph and CD orders:	80.00	80.00
Cash from Money Market Account	44,855.00	38,930.96
Dividends--Chayes Fund:		
Franklin Templeton Income Fund (Chayes Fund)	10,000.00	
Dividends--General Funds:		
Franklin Templeton Income Fund		26,000.00
Franklin Templeton Rising Dividends Fund		405.00
Franklin Templeton Strategic Income Fund		8,000.00
Eaton Vance Government Obligations Fund		2,000.00
Colombia Funds		3,000.00
Principal Global Diversified Income Fund		4,735.00
<i>Budget Subtotal: Dividends--General Funds</i>	<i>55,000.00</i>	<i>44,140.00</i>
Total Income	224,970.96	192,370.96
EXPENSES		
Journal subscriptions: to publishers	15,000.00	15,000.00
Awards:		
Chayes Prize and travel	10,000.00	0.00
Vistelius	4,000.00	0.00
Krumbein		4,000.00
Griffiths		4,000.00
Matheron Lecturer	4,000.00	4,000.00
Distinguished Lecturer	10,000.00	10,000.00
C&G Research Scholarships	10,000.00	10,000.00
MG Research Scholarships (3 @ \$2,500)	7,500.00	7,500.00
NRR Research Scholarships (2 @ \$2,500)	5,000.00	5,000.00
Student Travel Grants	14,000.00	14,000.00
Student Chapter Support	13,000.00	13,000.00
Support of IUGS President	20,000.00	
IAMG Conference Support: (Seed Money - IAMG2017,2018)	6,000.00	15,585.96
Non-IAMG Conference Support	5,000.00	5,000.00
Contract Labor (IAMG Office operating expenses)	1,000.00	1,000.00
Contract Labor (IAMG Office)	16,000.00	15,400.00
Dedicated Server Provider	1,000.00	1,000.00
Outreach Project	8,000.00	8,000.00
Accounting Services	5,500.00	5,500.00
Internal Revenue Service (certification)	85.00	85.00
Bank charges	2,000.00	2,000.00
Promotion and Booths	6,000.00	6,000.00
IAMG Newsletter (2 per year)	5,500.00	5,500.00
ISI Membership Dues	300.00	300.00
Travel: Officers & Members	25,000.00	25,000.00
Archivist operating expenses	1,000.00	1,000.00
Earth Science Matters (ESM) 5,000 euros	6,500.00	6,500.00
Miscellaneous	8,000.00	8,000.00
Investments	15,585.96	0.00
Total expenses	224,970.96	192,370.96
Net Income	0.00	0.00