

Report of the IAG Secretary General

Hermann Drewes

The duties of the IAG Secretary General are (Bylaw 36):

- (a) Serve as secretary of the General Assembly, the Scientific Assembly, the Council, the Executive Committee, and the Bureau; arrange for meetings of these bodies, distribute promptly the agenda and prepare and distribute the minutes of all their meetings;
- (b) Act as Director of the IAG Office;
- (c) Manage the Association affairs including finances, attend to correspondence, and preserve the records;
- (d) Circulate all appropriate information related to the Association;
- (e) Prepare the reports of the Association's activities;
- (f) Perform such other duties as may be assigned by the Bureau.

At each IAG General Assembly, the Secretary General shall present a detailed report on the administrative work and on the finances of the Association (Bylaw 25) to be published in the Geodesist's Handbook (Bylaw 19).

The Secretary General is assisted by the IAG Office in the administration of all IAG business affairs including the organization of General and Scientific Assemblies, record keeping of the Council, EC and Bureau meetings, individual IAG membership, and the budget management.

1 Administrative work

Most important activities in the period 2011-2015 were the preparation and execution of the IAG Scientific Assembly 2013 and the IAG part of the IUGG General Assembly 2015, the edition of the Geodesist's Handbook 2012, and the IAG Reports 2011–2013 and 2011-2015 (Travaux de l'AIG Vol. 38 and Vol. 39). The accountings of the Journal of Geodesy and the IAG Symposia Series, both published

by Springer, were supervised. 53 travel awards for young scientists to participate in IAG sponsored symposia, and 35 IAG / IUGG awards for participation in the General Assembly 2015 were handled.

1.1 Scientific Assembly

The IAG Scientific Assembly was organised in Potsdam, Germany, 2-6 September 2013 celebrating concurrently IAG's 150th anniversary. The complete assembly report is published at <http://iag.dgfi.tum.de/index.php?id=304> and a summary in the IAG Newsletter, December 2013. A total of 538 attendees from 47 countries registered, 241 lectures and 234 posters were presented. The Young Authors Awards were granted for the best publications in the Journal of Geodesy to Thomas Artz (2011) and Manuela Seitz (2012). Each three awards were granted to the best young authors lectures and posters. 8 travel awards were given to young scientists. The symposium proceedings were published in the IAG Symposia Series, Vol. 143.

1.2 General Assembly

The IAG General Assembly was held customarily together with the IUGG General Assembly in Prague, Czech Republic, 22 June – 2 July, 2015. The complete report may be found at <http://www.iugg.org/assemblies/2015prague/>, a summary of the IAG assembly is published in the IAG Newsletter, August 2015. The IAG organised 1 Union Symposium, 3 Joint Symposia with other Associations, and 8 IAG Symposia. 10 Union Symposia and 10 Joint Symposia were co-sponsored by IAG, and 1 Union lecture was given by the IAG Vice President Harald Schuh. 534 of the total of 4231 participants from 87 countries registered for IAG, presenting 545 lectures or posters in the IAG

Symposia and 65 in the Joint Symposia. 35 travel awards were granted and 42 registration fees were waived for IAG participants from the IUGG and IAG budget. The IAG Levallois Medal, Guy Bomford Prize, and Young Authors Awards were granted (see reports in this Handbook).

1.3 Council

The IAG Council is responsible for governance, strategic policy and direction. It consists of the delegates appointed by the Adhering Bodies of the IUGG member countries. The Council meetings at the IUGG General Assemblies 2011 (Melbourne, Australia) and 2015 (Prague, Czech Republic), and at the Scientific Assembly 2013 (Potsdam, Germany) were prepared and minutes were published. The national delegates' list was regularly updated, and they were informed by e-mail about the IAG activities.

1.4 IAG Executive Committee (EC)

The Executive Committee guides the Association with regard to the achievement of its scientific objectives. The 8 EC meetings during the legislative period 2011 to 2015 (Melbourne, Australia, July 2011; San Francisco, USA, December 2011; Singapore, August 2012; Vienna, Austria, April 2013; Potsdam, Germany, September 2013; Vienna, Austria, April 2014; San Francisco, USA, December 2014; and Prague, Czech Republic, June 2015) were prepared, minutes were distributed, and summaries were published in the Newsletter, in the Journal of Geodesy and on the IAG Websites (www.iag-aig.org and iag.dgfi.tum.de).

1.5 IAG Bureau

The meetings of the IAG Bureau (IAG President, Vice President, Secretary General), normally held every month by teleconferences and regularly before each EC meeting, were prepared and recorded. The President and Secretary General participated in the IUGG Executive Committee Meetings. The IAG was represented at meetings, e.g. the 150th anniversaries of the Swiss Geodetic Commission, Zurich, Switzerland, June 2011, the Arc Measurements in Saxony, Dresden, Germany, June 2012, and in Austria-Hungary, Vienna, Austria, September 2012, and Austrian Geodetic Commission, Vienna, Austria, November 2013.

1.6 IAG Office

The IAG Office is located at Deutsches Geodätisches Forschungsinstitut der Technischen Universität München, Germany. A Website for internal IAG Communication is maintained at <http://iag.dgfi.tum.de>.

1.7 Publications

The accounts of the Journal of Geodesy, the IAG monthly scientific periodical, and the IAG Symposia Series were regularly rendered with the Springer-Verlag. The volumes edited during the referred period are: Vol. 136: IAG Scientific Assembly 2009; Vol. 137: VII Hotine-Marussi Symposium on Mathematical Geodesy 2009; Vol. 138: Commission 1 Symposium 2010; Vol. 139: General Assembly 2011; Vol. 140: QuGOMS Workshop 2011. The biannual IAG Reports were published in the Travaux de l'AIG Vol. 37 (2011), Vol. 38 (2013) and Vol. 39 (2015).

1.8 Individual Membership

The IAG has at present about 200 individual members. The membership fee (USD 50/year or USD 150/4 years, students with university certificate free) was collected by credit cards or bank transfer, and the membership list was regularly updated in cooperation with the Communication and Outreach Branch for sending the IAG Newsletter. The actual lists were provided to the Organizing Committees of IAG Symposia in order to reduce the registration fee for IAG members according to the IAG Bylaws.

1.9 IAG Symposia, Workshops and Schools

Important meetings of IAG components and sponsored IAG meetings from July 2011 to June 2015 were:

- SIRGAS General Meeting, Heredia, Costa Rica, 8-10 August 2011;
- Int. Workshop on GNSS Remote Sensing for Future Missions & Sciences, Shanghai, China, 7-9 August 2011;
- Int. Symposium on Deformation Monitoring, Hong Kong, China, 2-4 November 2011;
- IGS Workshop on GNSS Biases, Bern, Switzerland, 18-19 January 2012;
- VLBI2010 Workshop on Technical Specifications (TecSpec), Bad Kötzing, Germany, 1-2 March 2012;
- 7th IVS General Meeting "Launching Next-Generation IVS Network", Madrid, Spain, 12-13 March 2012;
- Symposium and Workshop on PPP-RTK and Open Standards, Frankfurt, Germany, 12-14 March 2012;
- IERS Global Geophysical Fluids Center (GGFC) Workshop, Vienna, Austria, 20 April 2012;
- EUREF 2012 Symposium, Saint Mandé, France, 6-8 June 2012;
- IGS Analysis Center Workshop, Olsztyn, Poland, 23-27 July 2012;
- IAG Symposium at the AOGS-AGU (WPGM) Joint Assembly, Singapore, 13-17 August 2012;

- Int. Symposium on Space Geodesy and Earth System (SGES2012), Shanghai, China, 19-20 August 2012;
- WEGENER 2012 Symposium, Strasbourg, France, 17-20 September 2012;
- 17th Int. Symposium on Earth Tides and Earth Rotation (ETS 2012), Cairo, Egypt, 24-28 September 2012;
- IDS Workshop, Venice, Italy, 25-26 September 2012;
- 7th IAG-IHO ABLOS Conference, Salle du Ponant, Monaco, 3-5 October 2012;
- European VLBI Network (EVN) Symposium, Bordeaux, France, 9-12 October 2012;
- Workshop on Reflectometry using GNSS and Other Signals, Prudue University, West Lafayette, IN, USA, 10-11 October 2012;
- Int. VLBI Technology Workshop, Westford, MA, USA, 22-24 October 2012;
- Int. Technical Laser Workshop “Satellite, Lunar, and Planetary Laser Ranging: Characterizing the Space Segment”, Frascati, Italy, 5-9 November 2012;
- 21st European VLBI for Geodesy and Astrometry Workshop, Helsinki, Finland, 6-8 March 2013;
- 17th Int. Symposium on Earth Tides “Understand the Earth”, Warsaw, Poland, 15-19 April 2013;
- Seventh IVS Technical Operations Workshop, Westford, MA, USA, 6-9 May 2013;
- IERS Workshop on Local Ties and Co-locations, Paris, France, 21-22 May 2013;
- EUREF Symposium, Budapest, Hungary, 29-31 May 2013;
- Int. Symp. “Reconciling Observations and Models of Elastic and Viscoelastic Deformation due to Ice Mass Change”, Ilulissat, Greenland, 30 May – 2 June 2013;
- GNSS Precise Point Positioning: Reaching Full Potential, Ottawa, Canada, 12-14 June 2013;
- VIII Hotine-Marussi Symposium, Rome, Italy, 17-21 June 2013;
- Int. Conference on “Earth Observations and Societal Impacts”, Tainan, Taiwan, 23-25 June 2013;
- Int. Symposium on Planetary Sciences (IAPS2013), Shanghai, China, 1-4, July 2013;
- IAG Scientific Assembly, Potsdam, Germany, 1-6 September 2013;
- 2nd Joint Int. Symposium on Deformation Monitoring, Nottingham, UK, 9-11 September 2013;
- Third Symposium on “Terrestrial Gravimetry: Static and Mobile Measurements (TGSMM-2013)”, St Petersburg, Russia, 17-20 September 2013;
- Scientific Developments from Highly Accurate Space-Time Ref. Systems, Paris, France, 16-18 Sept. 2013;
- ITU/BIPM Workshop on “The Future of the International Time Scale”, Geneva, Switzerland, 19-20 September 2013;
- 2nd Int. VLBI Technology Workshop, Seogwipo, Rep. of Korea, 10-12 October 2013;
- SIRGAS Symposium, Panama City, Panama, 24-26 October 2013;
- 18th Int. Workshop on Laser Ranging, Fujiyoshida, Japan, 9-15 November 2013;
- European VLBI Network Technical and Operations Group (EVN TOG) Meeting, Bad Kötzting, Germany, 23-24 January 2014;
- 8th IVS General Meeting, Shanghai, China, 2-7 March 2014;
- European Reference System (EUREF) Symposium, Vilnius, Lithuania, 4-6 June 2014;
- IGS Workshop "Celebrating 20 Years of Service", Pasadena, CA, USA, 23-27 June 2014;
- 3rd Int. Gravity Field Service (IGFS) General Assembly, Shanghai, China, 30 June – 6 July 2014;
- Int. Symposium on Geodesy for Earthquake and Natural Hazards (GENAH 2014), Matsushima, Miyagi, Japan, 22-27 July 2014;
- 18th WEGENER General Assembly: Measuring and Modelling our Dynamic Planet Leeds, UK, 1-4 September 2014;
- Journees 2014 "Systemes de reference spatio-temporels", Pulkovo Observatory, St. Petersburg, Russia, 22-24 September 2014;
- 12th European VLBI Network (EVN) Symposium, Cagliari, Italy, 7-10 October 2014;
- Reference Frames for Applications in Geosciences (REFAG2014), Luxembourg, 13-17 October 2014;
- IDS Workshop, Konstanz, Germany, 27-28 October 2014;
- ILRS Technical Workshop, Greenbelt, MD, USA, 27-31 October 2014;
- Third Int. VLBI Technology Workshop, Groningen/Dwingeloo, The Netherlands, 10-13 November 2014;
- PECORA 19 Fall Meeting (ASPRS, IAG, ISPRS) “Sustaining Land Imaging: Unmanned Aircraft Systems (UAS) to Satellites”, Denver, CO, USA, 17-20 November 2014;
- SIRGAS Symposium, La Paz, Bolivia, 24-26 November 2014;
- 11th Int. Symposium on Location-Based Services, Vienna, Austria, 26-28 November 2014.
- Eighth IVS Technical Operations Workshop (TOW 2015), Westford, MA, USA, 4-7 May 2015.
- 8th Workshop on GNSS Reflectometry (GNSS+R 2015), Potsdam, Germany, 11-13 May 2015.
- 22nd Meeting of the European VLBI Group for Geodesy and Astrometry (EVGA) Ponta Delgada, Azores, Portugal, 17-21 May 2015.
- SIRGAS Workshop on Vertical Reference Frames, Curitiba, Brazil, 18-22 May 2015;
- GIA Modeling, Fairbanks, AK, USA, 26-29 May 2015;
- European Reference Frame (EUREF) Symposium, Leipzig, Germany, 3-5 June 2015.

The following IAG Schools were held:

- SIRGAS School “Geodetic Reference Systems”, Heredia, Costa Rica, 3-5 August 2011;
- GNSS School “New GNSS Algorithms & Techniques for Earth Observations”, Hong Kong, China, 14-15 May 2012;
- Int. Summer School “Space Geodesy & Earth System”, Shanghai, China, 21-25 August 2012;
- SIRGAS School “Real Time GNSS Positioning”, Concepción, Chile, 24-26 October 2012;
- IVS Training School for Next Generation Geodetic and Astrometric VLBI, Helsinki, Finland, 2-5 March 2013.
- 11th School of the International Geoid Service: Heights and Height Datum, Loja, Ecuador, 7-10 October 2013.
- SIRGAS School “Reference Systems, Crustal Deformation and Ionosphere Monitoring”, Panama City, Panama, 21-23 October 2013.
- SIRGAS School “Vertical Reference Systems”, La Paz, Bolivia, 20-22 November 2014.

2 Finances

The financial report includes the result 2011-2014 (Table 1), the budget 2015-2018 (Table 2) and the report of the Audit Committee (Appendix A).

Table 1 Financial Report 2011-2014

Result 2011- 2014 in EUR				
Expenditures		Receipts		
11.5	Administration, Travel	8.033,14	15 IUGG Allocation	103.378,81
11.6	Representation	5.210,97	1 Membership Fee	16.036,60
12.2	Proceedings IAG Symposia Series	22.611,67	2 Other Grants	962,26
14.1	Assemblies, Organization	15.248,87	3.1 IAG Symposia Series	2.400,00
14.2	Symposia, Travel Awards	50.555,62	3.2 Journal of Geodesy	12.271,00
16.2	Prizes, Young Authors Awards	2.246,56	3.3 Others	297,00
18.6	Credit Card Service	766,63	4.2 IAG Fund	252,84
			4.4 Geoid School	217,98
19	Total Expenditures	104.673,46	6 Total Receipts	135.816,46
	Surplus	31.143,03		
	Total	135.816,49	Total	135.816,49

Balance 31.12.2014 in EUR				
Assets		Liabilities		
20	Staatsoberkasse 31.12.2010	107.626,42	Net Capital 31.12.2014	135.726,15
	Deposit IGS	9.647,98	Refund IGS	12.691,28
	Surplus 2011	3611,08	Deficit 2014	2.101,20
	Surplus 2012	20.529,39		
	Surplus 2013	9.103,76		
	Total	150.518,63	Total	150.518,63

Net Capital 2014 in EUR		
	Open 1.1.2011	107.626,42
	Surplus	31.143,03
	Deficit IGS *)	-3.043,30
	Total	135.726,15

*) Refund USD 2.807,05 Reserve for IGS

Table 2 Budget 2015-2018

Budget for the period 1.1.2015 - 31.12.2018 in EUR				
Expenditures		Receipts		
11.2	Administration, Equipment	4.000	15 IUGG Allocation	80.000
11.5	Administration, Travel	25.000	1 Membership Fee	15.000
11.6	Administration, Representation	10.000	2 Other Grants	2.000
12.1	Publications, Outreach	1.000	3 Sales of Publications	
12.2	Publications, IAG Symposia Series	25.000	3.1 IAG Symposia Series	2.000
13.1	Assemblies, Organization	20.000	3.2 Journal of Geodesy	10.000
13.2	Assemblies, Travel	10.000	4 Miscellaneous	
14.2	Symposia, Travel Awards	60.000	4.1 IAG Fund	1.000
16.2	Prizes, Young Authors Awards	4.000		
18.6	Credit Card Service	1.000		
19	Total Expenditures	160.000	6 Total Receipts	110.000
			Deficit	50.000
Total		160.000	Total	160.000

Net Capital 2018 in EUR				
			Open 1.1.2015	136.000
	Balance 31.12.2018	86.000	Deficit	-50.000
Total		86.000	Total	86.000

Appendix A

IAG Audit Committee Report

Committee members, appointed by the IAG Council:
Denizar Blitzkow, Kosuke Heki, Markku Poutanen

The Audit Committee performed the following functions:

- 1.1 Noticed that the accounts were checked by the Bavarian Ministry for Science, Research and Art ("Bayerisches Staatsministerium für Wissenschaft, Forschung and Kunst") together with the DGFI accounts and that the accounting, bookkeeping and budgeting are in EUR.
- 1.2 Examined the receipts and bank statements of the IAG account for the period January 2011 to December 2014; checked the balances appearing in the annual and quadrennial IAG reports.
- 1.3 Examined expenditure to ensure conformity with the 2011-2014 budget as approved at the IUGG General Assembly in Melbourne in July 2011.
- 1.4 Examined the budget for the period 2015-2018.

The Audit Committee makes the following observations and comments on the IAG accounts:

- 2.1 The accounts were well presented and all expenditures were supported by receipts and bank statements.
- 2.2 The banking service costs are completely free of charge. The possibility to use the DGFI account and the use of EUR in bookkeeping simplifies accounting and saves for extra costs.
- 2.3 During the review period, the IAG made an operating surplus of EUR 31243. This amount is added to the IAG reserve, leaving reserves of approximately EUR 136000 at the end of 2014.
- 2.4 The Audit Committee found that the IAG had a surplus on the average over the 4 year period on approximately EUR 7800 per year with quite large annual variations, from surplus EUR 20529 in 2012 to deficit of EUR 2101 in 2014. The Audit Committee concludes that the budget estimates are being based on the experience accumulated over the years and the annual variation depends on the meetings and other activities each year.
- 2.5 The committee examined the provisional budget for 2015-2018 which seems to be realistic as compared to the past period 2011-2014.

The Audit Committee makes the following recommendations:

- 3.1 The current positive balance almost reaches the 4-year budget, what is too high. Intended deficit of EUR 50000 in 2014-2018 will make the balance of bank account smaller, as already recommended in the 2011 audit report.
- 3.2 The budget for grants to young scientists has been increased during the last period. The committee encourage to continue the trend and use some of the surplus for this, as planned in the 2015-2018 budget.
- 3.3 The organizers of the IAG meetings should be encouraged to continue publishing their proceedings by Springer Verlag series in order to maintain a series of publications with the IAG label and ensuring a high standard as well. This series has been developed in a very positive way and is recognized by ISI web of Science.

- 3.4 The IAG EC and COB should continue efforts to attract people more effectively to join IAG. Current membership benefits may not be attractive enough, and additional member functions available on IAG web page are relatively invisible to most potential members.

On behalf of the IAG Council, the Audit Committee has the following acknowledgements and thanks

- 4.1 Hermann Drewes, IAG Secretary General, for his efficient and cautious administration and management of the IAG Office.
- 4.2 The German Geodetic Research Institute DGFI for administrative and accounting support.

Prague, Czech Republic, 29 June 2015

Denizar Blitzkow, Kosuke Heki, Markku Poutanen