

# Report of the IAG Secretary General

## Hermann Drewes

According to the IAG Bylaws, the Secretary General serves as the secretary of the General Assembly, the Scientific Assembly, the Council, the Executive Committee and the Bureau. He arranges for meetings of these bodies, distributes promptly the agenda, and prepares and distributes the minutes of all their meetings. He acts as the Director of the IAG Office and manages the affairs of the Association including the finances. He continuously attends to the IAG correspondence, preserves the records and circulates all appropriate information related to the Association. He has to prepare the reports of the Association's activities and to perform other duties as may be assigned by the Bureau, the Council and the Executive Committee.

### 1. Administrative work

Administrative works with the greatest efforts in the period 2015-2019 were the preparation and execution of the joint IAG/IASPEI Scientific Assembly 2017 and the IUGG General Assembly 2019. Other major actions include the edition of the Geodesist's Handbook 2016 and the IAG Reports Vol. 40 and Vol. 41 (Travaux de l'AIG 2015–2017 and 2015–2019), the organisation of eight meetings of the IAG Executive Committee, and the sponsoring of 44 IAG scientific meetings. The management of financial affairs applies to all IAG accountings, including the Journal of Geodesy and IAG Symposia Series, three IUGG sponsored Projects and Symposia, and the handling of the individual IAG membership. 61 travel awards were granted to young scientists for participation in IAG symposia, and 72 awards for assisting the IUGG General Assembly 2019.

#### 1.1 Scientific Assembly

The IAG Scientific Assembly was organised together with the International Association of Seismology and Physics of

the Earth's Interior (IASPEI) in Kobe, Japan, July 30 to August 4, 2017. The full assembly reports are published at <https://www.iag-aig.org/doc/5ceea88fa6e85.pdf> and at <http://www.iugg.org/publications/ejournals/IUGGej1712.pdf>. 1107 attendees from 65 countries registered and presented 1119 lectures and posters in 43 symposia, 9 of these as joint IAG-IASPEI Symposia. The symposium proceedings were published in the IAG Symposia Series, Vol. 149.

#### 1.2 General Assembly

The IAG held its General Assembly, as usual, together with the IUGG General Assembly in Montreal, Canada, July 8 to 18, 2019. The general report is published at <http://www.iugg.org/publications/ejournals/IUGGej1909.pdf> and the IAG part in the present volume. 3952 participants registered, 437 of them with IAG priority. There were 234 Symposia and 18 Workshops with 4580 presentations, 469 in IAG Symposia. IAG organised one Union Symposium, 7 Joint Symposia with other associations, 6 IAG Symposia, and 20 business meetings. In addition, IAG co-sponsored 8 Union Symposia and 15 Joint Symposia. *Kosuke Heki* gave a Union lecture on behalf of the IAG. 72 travel awards for IAG participants were granted from IUGG and IAG.

#### 1.3 Council

The IAG Council consists of the delegates appointed by the Adhering Bodies of the IUGG member countries and is responsible for governance, strategic policy and direction of the IAG. The Secretary General continuously informs them on actual IAG activities and events. The Council meetings at the Scientific Assembly 2017 in Kobe, Japan, and the IUGG General Assembly 2019 in Montreal, Canada, were prepared and minutes were published (the latter in this volume). The national delegates' list is regularly updated in contact with the IUGG Secretariat.

### 1.4 IAG Executive Committee (EC)

The duties of the Executive Committee are to further the objectives of the IAG through effective coordination and the formulation of general policies. Eight EC meetings were organised during the legislative period 2015 to 2019 (Prague, Czech Republic, July 2015; San Francisco, USA, December 2015; Potsdam, Germany, April 2016; Vienna, Austria, April 2017 and April 2018; Kobe, Japan, July 2017; Washington, USA, December 2018; and Montreal, Canada, July 2019). The minutes were distributed, and meeting summaries were published in the IAG Newsletter, the Journal of Geodesy (the latest in this volume) and on the IAG Websites (<https://office.iag-aig.org/meeting-summaries>).

### 1.5 IAG Bureau

The IAG Bureau consists of the IAG President, the Vice President and the Secretary General. It meets normally before each EC meeting and holds regular teleconferences to administer the day-to-day affairs. The President and the Secretary General participated in the meetings of the IUGG Executive Committee and represented the IAG at international meetings of allied scientific bodies.

### 1.6 IAG Office

The IAG Office was located from 2007 to 2019 at the Deutsches Geodätisches Forschungsinstitut, Technische Universität München, Germany. A Website for internal IAG affairs was maintained at <https://iag.dgfi.tum.de>.

### 1.7 Publications

The IAG Secretary General manages the financial affairs of the Journal of Geodesy and IAG Symposia Series. The following volumes of the latter were published 2015-2019:

- 142: VIII Hotine-Marussi Symposium Rome 2013;
- 143: IAG Scientific Assembly, Potsdam 2013;
- 144: 3rd IGFS Symposium, Shanghai 2014;
- 145: GENAH Symposium, Matsushima 2014;
- 146: REFAG Symposium, Luxembourg 2014;
- 147: IAG General Assembly, Prague 2015;
- 148: Gravity, Geoid, Height Systems, Thessaloniki 2016;
- 149: IAG Scientific Assembly, Kobe 2017.

The biannual IAG Reports are published in the Travaux de l'AIG 2017 (Vol. 40) and 2019 (Vol. 41) and may be found at <https://iag.dgfi.tum.de>. Annual IAG reports are published in the IUGG Annual Reports and Yearbooks.

### 1.8 Individual Membership

The IAG has at present about 180 paying individual members and 40 free student members. The membership fee (USD 50 per year or USD 150 per 4 years) is collected by

credit cards or bank transfer. The membership list is regularly updated in cooperation with the Communication and Outreach Branch for distributing the IAG Newsletter. The actual lists are 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 Awards

There are three IAG Awards for meritorious work of IAG associates, normally presented at the IAG Scientific and General Assemblies (see <https://www.iag-aig.org/awards>):

- Levallois Medal for distinguished service to the IAG and/or to the science of geodesy in general. In 2019, it was granted to *Christoph Reigber*, Germany.
- Guy Bomford Prize for outstanding contributions of a young scientist to geodetic studies. In 2019, it was granted to *Michal Šprlák*, Australia.
- Young Authors Awards for the best publications in the Journal of Geodesy. For 2017 it was granted to *Minghui Xu*, China, and for 2018 to *Athina Peidou*, Canada.

## 2. IAG Symposia, Workshops and Schools

Important meetings of the IAG components and meetings sponsored by the IAG from July 2015 to June 2019 were:

- International DORIS Service (IDS) Analysis Working Group Meeting, Greenbelt, MD, USA, 15-16 Oct. 2015.
- International Laser Ranging Service (ILRS) Analysis Working Group Meeting, Matera, Italy, 24 Oct. 2015.
- International Laser Ranging Service (ILRS) Technical Workshop 2015, Matera, Italy, 26-30 Oct. 2015.
- Latin American Reference System (SIRGAS) Symposium, Santo Domingo, Dominican Republic, 18-20 Nov. 2015.
- 9th International Symposium on Mobile Mapping Technology (MMT2015), Sydney, Australia, 9-11 Dec. 2015.
- IGS Workshop, Sydney, Australia, Feb. 15-19, 2016;
- 9th IVS General Meeting, Ekudeni, Johannesburg, South Africa, March 13-17, 2016;
- 3rd Joint Symposium on Deformation Monitoring, Vienna, Austria, March 30 – April 1, 2016;
- 4th IAG Symposium “Terrestrial gravimetry: Static and mobile measurements”, Saint Petersburg, Russia, April 12-15, 2016;
- European Reference Frame Symposium (EUREF 2016), San Sebastian, Spain, May, 25-27, 2016;
- 18th Geodynamics and Earth Tide Symposium 2016, Trieste, Italy, June 5-9, 2016;
- IAU/IAG/IERS Symposium “Geodesy, Astronomy and Geophysics in Earth Rotation (GAGER2016)”, Wuhan, Hubei, China, July 18-23, 2016;

- International Symposium on Geodesy and Geodynamics (ISGG2016), Tianjin, China, July 22-26, 2016;
- 1st International Conference on GNSS+ (ICG+2016), Shanghai, China, July 27-30, 2016;
- IAG Commission 4 “Positioning and Applications” Symposium, Wroclaw, Poland, Sep. 4-7, 2016;
- 18th General Assembly of WEGENER “Understanding Earth deformation at plate boundaries”, Ponta Delgada, Azores, Portugal, Sep. 12-15, 2016;
- 1st Joint Commission 2 and IGFS Meeting, International Symposium on Gravity, Geoid and Height Systems 2016 (GGHS2016), Thessaloniki, Greece, Sep. 19-23, 2016;
- First International Workshop on VLBI Observations of Near-field Targets, Bonn, Germany, October 5-6, 2016;
- 20th International Workshop on Laser Ranging, Potsdam, Germany, Oct. 9-14, 2016;
- GGOS Days, Cambridge, MA, USA, Oct. 24-28, 2016;
- IDS Workshop, La Rochelle, France, Oct. 31 – Nov. 1, 2016;
- Reference Frame for South and Central America Symposium (SIRGAS2016), Quito, Ecuador, Nov. 16-18, 2016;
- 1st International Symposium - Applied Geomatics and Geospatial Solutions, Rosario, Argentina, April 3-7, 2017;
- 9th IVS Technical Operations Workshop, Westford, MA, USA, April 30 – May 4, 2017;
- EUREF 2017 Symposium, Wroclaw, Poland, May 17-19, 2017;
- DORIS Analysis Working Group Meeting, London, UK, May 22-24, 2017;
- 21st Meeting of the Consultative Committee for Time and Frequency, Sèvres, France, June 6-9, 2017;
- 1st IUGG Symposium on Planetary Science, Berlin, Germany, July 3-5, 2017;
- IGS Workshop 2017, University of Paris-Diderot, France, July 3-7, 2017;
- IAG/GGOS/IERS Unified Analysis Workshop, Paris-Diderot, France, July 10-12, 2017;
- 2017 GNSS Tsunami Early Warning System Workshop, Sendai, Japan, July 25-27, 2017;
- IAG and IASPEI Joint Scientific Assembly, Kobe, Japan, July 30 – Aug. 4, 2017.
- Asia-Pacific Space Geodynamics Symposium, Shanghai, China, Aug. 15-18, 2017;
- Workshop on Glacial Isostatic Adjustment and Elastic Deformation, Reykjavik, Iceland, Sep. 5-7, 2017;
- 3<sup>rd</sup> COSPAR Symposium “Small Satellites for Space Research”, Jesu, South Korea, Sep. 18-19, 2017;
- IAG Workshop “Satellite Geodesy for Climate Studies”, Bonn, Germany, Sep. 19-21, 2017;
- Journées des Systèmes de Référence et de la Rotation Terrestre, Paris, France, Sep. 25-27, 2017;
- International Review Workshop on Satellite Altimetry Cal/Val Activities and Applications, Chania, Greece, April 23-26, 2018;
- EUREF Symposium 2018, Amsterdam, Netherlands, May 30 – June 01, 2018;
- 10th IVS General Meeting, Longyearbyen, Spitsbergen, Norway, June 3-8, 2018;
- 1st Workshop of the International Geodynamics and Earth Tide Service (IGETS), Potsdam, Germany, June 18-20, 2018;
- IX Hotine-Marussi Symposium on Mathematical Geodesy, Rome, Italy, June 18-22, 2018;
- 42nd COSPAR Scientific Assembly incl. IAG Commission 1 Symposium, July 14-22, 2018;
- IAG Commission 1 Symposium Reference Frames for Applications in Geosciences (REFAG2018), Pasadena, CA, USA, July 15-21, 2018;
- 8th UN-GGIM Session, New York, USA, Aug. 1-3, 2018;
- XXXth General Assembly of the IAU, Vienna, Austria; Aug. 20-31, 2018;
- 19th General Assembly of WEGENER, Grenoble, France, Sep. 10-13, 2018;
- Gravity, Geoid and Height Systems (GGHS 2) Symposium, Copenhagen, Denmark, Sep. 17-21, 2018;
- International DORIS Service (IDS) Workshop, Ponta Delgada, Azores Portugal, Sep. 24-26, 2018;
- GGOS Days 2018, Tsukuba, Japan, October 2-4, 2018;
- SIRGAS Symposium 2018, Aguascalientes, Mexico, Oct. 9-12, 2018;
- SIRGAS Workshop on Vertical Reference System, Mexico, Oct. 15-17, 2018;
- IGS 2018 Workshop, Wuhan, China, Oct. 29 – Nov. 2, 2018;
- International Workshop on GNSS Ionosphere (IWGI2018), Shanghai, China, Nov. 4-6, 2018;
- 21st Workshop on Laser Ranging, Canberra, Australia, Nov. 5-9, 2018.
- 24th Meeting of the European VLBI Group for Geodesy and Astronomy (EVGA) and 18th IVS Analysis Workshop, Las Palmas, Gran Canaria, Spain, March 14-20, 2019;
- IGS 2019 Analysis Workshop, Potsdam, Germany, April 15-17, 2019;
- 10th IVS Technical Operations Workshop, Westford, MA, USA, May 5-9, 2018;
- 4th Joint International Symposium on Deformation Monitoring, Athens, Greece, May 15-17, 2019;
- EUREF 2019 Symposium, Tallinn, Estonia, May 22-24, 2019.

The following IAG Schools were sponsored:

- VII SIRGAS School on Reference Systems, Santo Domingo, Dominican Republic, 16-17 Nov. 2015.
- 2nd IVS Training School on VLBI for Geodesy and Astrometry, Hartebeesthoek, South Africa, March 9 – 12, 2016;
- Geoid School, Ulaanbaatar, Mongolia, June 6-10, 2016;
- SIRGAS School on Vertical Reference Systems, Quito, Ecuador, Nov. 21-25, 2016;
- 3rd IVS Training School on VLBI for Geodesy and Astrometry, Las Palmas, Gran Canaria, Spain, March 14-20, 2019.

### 3. Finances

The financial report includes the result 2015-2018 (Table 1), the budget 2019-2023 (Table 2) and the report of the Audit Committee (Appendix A).

**Table 1:** Financial Report 2015-2018

<b>Result 2015 - 2018 in EUR</b>				
<b>Expenditures</b>		<b>Receipts</b>		
11.2	Administration Equipment	1.381,71	15 IUGG Allocation	110.326,00
11.5	Administration Travel	11.973,25	1 Membership Fee	17.619,93
11.6	Administration Representation	9.129,02	2 Other Grants	9.202,04
12.2	Publications	2.992,50	3.2 Journal of Geodesy	20.000,00
13.1	Assemblies, Organisation	9.634,20	4.1 IAG Fund	173,04
14.2	Symposia, Travel Awards	58.892,35	4.2 Geoid School	34,33
16.2	Prizes, Young Authors Awards	4.070,00		
18.6	Credit Card Service	406,13		
19	<b>Total Expenditures</b>	<b>98.479,16</b>	<b>6 Total Receipts</b>	<b>157.355,34</b>
	Surplus	58.876,18		
	<b>Total</b>	<b>157.355,34</b>	<b>Total</b>	<b>157.355,34</b>

<b>Balance 2018 in EUR</b>				
<b>Assets</b>		<b>Liabilities</b>		
	Staatoberkasse/TUM 31.12.2014	135.726,15	Net Capital 31.12.2018	194.602,33
	Deficit 2015	-4.941,21	Surplus / Deficit	0,00
	Surplus 2016	23.344,64		
	Surplus 2017	27.731,23		
	Surplus 2018	12.741,52		
	<b>Total</b>	<b>194.602,33</b>	<b>Total</b>	<b>194.602,33</b>

<b>Net Capital 2018 in EUR</b>				
			Open 1.1.2015	135.726,15
			Surplus	58.876,18
			<b>Total</b>	<b>194.602,33</b>

**Table 2:** Budget 2019-2022

Budget for the period 1.1.2019 - 31.12.2022 in EUR					
Expenditures			Receipts		
11.2	Administration, Equipment	3.000	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	4.000
12.1	Publications, Outreach	7.000	3	Sales of Publications	
12.2	Publications, IAG Symposia Series	40.000	3.1	IAG Symposia Series	0
13.1	Assemblies, Organization	20.000	3.2	Journal of Geodesy	20.000
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	4.2	Geoid School Lecture Notes	0
18.6	Credit Card Service	1.000			
<b>19</b>	<b>Total Expenditures</b>	<b>180.000</b>	<b>6</b>	<b>Total Receipts</b>	<b>120.000</b>
				Deficit	60.000
<b>Total</b>		<b>180.000</b>	<b>Total</b>		<b>180.000</b>

  

Net Capital 2022 in EUR				
	Balance 31.12.2022	135.000	Open 1.1.2019	195.000
			Deficit	-60.000
<b>Total</b>		<b>135.000</b>	<b>Total</b>	<b>135.000</b>

## Appendix A

### IAG Audit Committee Report

Committee members appointed by the IAG Council:  
*Denizar Blitzkow, Jonas Agren, Matt Amos*

#### 1. The Audit Committee performed the following functions:

- 1.1 Noted that the accounts had previously been reviewed by the Financial Department of the Technical University of Munich (TUM). The account is in Euros.
- 1.2 Examined the receipts and bank statements for the period 2015 – 2018. Checked the balance reports presented by the Secretary General, Hermann Drewes.
- 1.3 Examined expenditure to ensure conformity with the 2015 – 2018 budget as approved by the General Assembly in Melbourne, 2011.
- 1.4 Examined the budget proposed for the period 2019 – 2023.

#### 2. The Audit Committee makes the following comments on the IAG accounts:

- 2.1 The accounts were well presented and the expenditures supported by receipts and bank statements.
- 2.2 During this period, the IAG made an unplanned surplus of €58,876.00 in contrast to the €50,000 deficit that was

forecast. The variance of €108,876.18 is large considering the total turnover was €255,834.50.

- 2.3 The 2015-2018 surplus increases the IAG reserve from €135.726,00 to €194.602,00.
- 2.4 The budget for the next period (2014 – 2023) forecasts a deficit of €60,000.

#### 3. The Audit Committee makes the following recommendations:

- 3.1 The budget is appropriate and the forecast deficit is prudent to reduce the balance of the IAG reserve.
- 3.2 The Committee recommends that the proposed budget is approved.

#### 4. On behalf of the IAG Council the Committee makes the following acknowledgements:

- 4.1 Hermann Drewes for his efficient administration and management of IAG Office.
- 4.2 The Financial Department of TUM for the support and checking to the accounts.

The audit committee wishes Markku Poutanen, the new Secretary General, a successful administration.

Montreal, July 16, 2019.

Denizar Blitzkow   Jonas Agren   Matt Amos





Fig. 1: IAG Executive Committee Meeting, Potsdam, 4 April 2016



Fig. 2: Auditorium at the Joint IAG/IASPEI Scientific Assembly, Kobe 2017