

The International Association of Geodesy

Historical Overview

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The history of the International Association of Geodesy goes back to April 1862 when the Central European Arc Measurement (“Mittleuropäische Gradmessung”) was initiated at a “preliminary consultation” of representatives of the states of Prussia, Austria and Saxony in Berlin. At the end of the year, 16 countries had joined the project. The first General Conference was held in Berlin, October 1864, with delegates from 14 countries. In 1867 it was expanded to the European Arc Measurement and in 1886 to the International Geodetic Association (“Internationale

Erdmessung”, “Association Géodésique Internationale”). At the Constitutive Assembly of the International Research Council (IRC) in Brussels, July 1919, the “Section Geodesy” was one of the constituents of the International Union of Geodesy and Geophysics (IUGG) and held its Constitutive Assembly during the first IUGG General Assembly in Rome, April-May 1922. The name was changed to “Association of Geodesy” in Stockholm, August 1930, and to the present name in July 1946. The following summarises the historic development.

Table 1 General Conferences / General Assemblies of the International Association of Geodesy and predecessors

No	Venue	Year
I. General Conferences		
<i>Ia. Mittleuropäische Gradmessung - Central European Arc Measurement (1862-1867)</i>		
1	Berlin, Prussia	1864
2	Berlin, Prussia	1867
<i>Ib. Europäische Gradmessung - European Arc Measurement (1867-1886)</i>		
3	Vienna, Austria-Hungary	1871
4	Dresden, German Empire	1874
5	Stuttgart, German Empire	1877
6	Munich, German Empire	1880
7	Rome, Italy	1883
8	Berlin, German Empire	1886

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No	Venue	Year
<i>Ic. Internationale Erdmessung - Association Géodésique Internationale – Int. Geodetic Association (1886-1922)</i>		
9	Paris, France	1889
10	Brussels, Belgium	1892
11	Berlin, German Empire	1895
12	Stuttgart, German Empire	1898
13	Paris, France	1900
14	Copenhagen, Denmark	1903
15	Budapest, Austria-Hungary	1906
16	Cambridge, United Kingdom	1909
17	Hamburg, German Empire	1912
II. General Assemblies of the Section and Association of Geodesy at the General Assemblies of the IUGG		
<i>Ila. IUGG Section of Geodesy (1919-1930)</i>		
18	Rome, Italy (Constitutive Assembly)	1922
19	Madrid, Spain	1924
20	Prague, Czechoslovakia	1927
21	Stockholm, Sweden	1930

Table 1 continued

No	Venue	Participants:	IUGG	IAG	Year
<i>Iib. IUGG Association of Geodesy (1930-1946)</i>					
22	Lisbon, Portugal		200		1933
23	Edinburgh, UK		344		1936
24	Washington, USA		805		1939
<i>Iic. IUGG International Association of Geodesy (1946-...)</i>					
25	Oslo, Norway		368		1948
26	Brussels, Belgium		918	134	1951
27	Rome, Italy		923	235	1954
28	Toronto, Canada		1165	235	1957
29	Helsinki, Finland		1375	219	1960
30	Berkeley, USA		1938	329	1963
31	Zurich/Lucerne, Switzerland		2200	357	1967
No	Venue	Participants:	IUGG	IAG	Year
32	Moscow, USSR		2577	449	1971
33	Grenoble, France		2564	398	1975
34	Canberra, Australia		1944	278	1979
35	Hamburg, F.R. Germany		3204	472	1983
36	Vancouver, Canada		3939	420	1987
37	Vienna, Austria		4331	594	1991
38	Boulder, USA		4481	567	1995
39	Birmingham, UK		4052	478	1999
40	Sapporo, Japan		4151	407	2003
41	Perugia, Italy		4351	433	2007
42	Melbourne, Australia		3392	370	2011
43	Prague, Czech Republic		4231	534	2015
44	Montreal, Canada				2019

Table 2 Scientific Assemblies of the International Association of Geodesy

No	Venue	Date	Number of Attendees
1	Tokyo, Japan	May 7-15, 1982	200
2	Edinburgh, UK	August 3-12, 1989	355
3	Beijing, China	August 8-13, 1993	340
4	Rio de Janeiro, Brazil	September 3-9, 1997	250
5	Budapest, Hungary	September 2-7, 2001	461
6	Cairns, Australia	August 22-26, 2005 (joint with IAPSO and IABO)	IAG: 145 (in all: 724)
7	Buenos Aires, Argentina	August 31- Sept. 4, 2009	363
8	Potsdam, Germany	September 1-6, 2013	538
9	Kobe, Japan	July 30 – August 4, 2017 (joint with IASPEI)	

Table 3 Presidents of the International Association of Geodesy and predecessors

No	Period	Position	Name	Residence
<i>Ia. Mitteleuropäische Gradmessung (1862-1867), Europ. Gradmessung (European Arc Measurement) (1867-1886)</i>				
1	1864-1868	President of the Permanent Commission	Peter Andreas Hansen	Gotha, Thuringia
2	1869-1874	President of the Permanent Commission	August von Fligely	Vienna, Austria-Hungary
3	1874-1886	President of the Permanent Commission	Carlos Ibañez de Ibero	Madrid, Spain
<i>Ib. Internat. Erdmessung - Association Géodésique Internationale (International Geodetic Association) (1886-1917)</i>				
3	1887-1891	President of the Association	Carlos Ibañez de Ibero	Madrid, Spain
4	1892-1902	President of the Association	Hervé A. E. A. Faye	Paris, France
5	1903-1917	President of the Association	Léon J. A. Bassot	Paris, France
<i>Ic. Reduced Geodetic Association among Neutral States (1917-1922)</i>				
6	1917-1922	President of the Reduced Association	Raul Gautier	Geneva, Switzerland

Table 3 continued

<i>No</i>	<i>Period</i>	<i>Position</i>	<i>Name</i>	<i>Residence</i>
<i>Ila. IUGG Section of Geodesy (1919-1930)</i>				
7	1922-1933	President of the Section	William Bowie	Washington, USA
<i>Ilb. IUGG Association of Geodesy (1930-1946)</i>				
8	1933-1946	President of the Association	Felix A. Vening-Meinesz	Amersfoort, The Netherlands
<i>Ilc. International Association of Geodesy (IAG) of the IUGG (1946-...)</i>				
9	1946-1951	President of the IAG	Walter D. Lambert	Washington, USA
10	1951-1954	President of the IAG	Carl F. Bäschlin	Zurich, Switzerland
11	1954-1957	President of the IAG	James de Graaf Hunter	London, United Kingdom
12	1957-1960	President of the IAG	Gino Cassinis	Milan, Italy
13	1960-1963	President of the IAG	Charles A. Whitten	Washington, USA
14	1963-1967	President of the IAG	Guy Bomford	London, United Kingdom
15	1967-1971	President of the IAG	Antonio Marussi	Trieste, Italy
16	1971-1975	President of the IAG	Youri D. Boulanger	Moscow, USSR
17	1975-1979	President of the IAG	Tauno J. Kukkamäki	Helsinki, Finland
18	1979-1983	President of the IAG	Helmut Moritz	Graz, Austria
19	1983-1987	President of the IAG	Peter V. Angus-Leppan	Kensington, Australia
20	1987-1991	President of the IAG	Ivan I. Mueller	Columbus, USA
21	1991-1995	President of the IAG	Wolfgang Torge	Hannover, Germany
22	1995-1999	President of the IAG	Klaus-Peter Schwarz	Calgary, Canada
23	1999-2003	President of the IAG	Fernandó Sansó	Milan, Italy
24	2003-2007	President of the IAG	Gerhard Beutler	Bern, Switzerland
25	2007-2011	President of the IAG	Michael G. Sideris	Calgary, Canada
26	2011-2015	President of the IAG	Chris Rizos	Sydney, Australia
27	2015-2019	President of the IAG	Harald Schuh	Potsdam, Germany

Table 4 Permanent Secretaries / Secretaries General of the International Association of Geodesy and predecessors

<i>No</i>	<i>Period</i>	<i>Position</i>	<i>Name</i>	<i>Residence</i>
<i>Ia. Internationale Erdmessung - Association Géodésique Internationale (International Geodetic Association) (1886-1917) and Reduced Geodetic Association among Neutral States (1917-1922)</i>				
1	1886-1900	Permanent Secretary	Adolf Hirsch	Neuchatel, Switzerland
2	1900-1921	Permanent Secretary	H. G. van de Sande-Bakhuysen	Leiden, The Netherlands
<i>Ib. IUGG Section of Geodesy (1919-1930) and IUGG Association of Geodesy (1930-1946)</i>				
3	1922-1946	Secretary General	Georges Perrier	Paris, France
<i>Ic. International Association of Geodesy of the IUGG (1946-...)</i>				
4	1946-1960	Secretary General	Pierre Tardi	Paris, France
5	1960-1975	Secretary General	Jean-Jacques Levallois	Paris, France
6	1975-1991	Secretary General	Michel Louis	Paris, France
7	1991-1995	Secretary General	Claude Boucher	Paris, France
8	1995-2007	Secretary General	Carl Christian Tscherning	Copenhagen, Denmark
9	2007-2019	Secretary General	Hermann Drewes	Munich, Germany

Table 5 Central Bureau (since 2007 Office) of the International Association of Geodesy and predecessors

<i>No</i>	<i>Period</i>	<i>Host Institute</i>	<i>Name of Director</i>	<i>Residence</i>
1	1864 – 1885	Royal Prussian Geodetic Institute	Johann Jacob Baeyer	Potsdam, Prussia
2	1886 – 1917		Friedrich Robert Helmert	Potsdam, Germany
3	1917 – 1922		J. H. Louis Krüger (p.p.)	Potsdam, Germany
4	1922 – 1946	Institut Géographique National (IGN)	Georges Perrier	Paris, France
5	1946 – 1960		Pierre Tardi	Paris, France
6	1960 – 1975		Jean-Jacques Levallois	Paris, France
7	1975 – 1991		Michel Louis	Paris, France
8	1991 – 1995		Claude Boucher	Paris, France
9	1995 – 2007	Niels Bohr Institute, Department of Geophysics, University of Copenhagen	Carl Christian Tscherning	Copenhagen, Denmark
10	2007 –	Deutsches Geodätisches Forschungsinstitut	Hermann Drewes	Munich, Germany

Table 6 Editors in Chief of Official Journals of the International Association of Geodesy and predecessors

<i>No</i>	<i>Journal</i>	<i>Period</i>	<i>Name of Editor-in-Chief</i>	<i>Residence</i>
I.1	Bulletin Géodésique	1922 – 1945	Georges Perrier	Paris, France
I.2		1946 – 1951	Pierre Tardi	Paris, France
I.3		1952 – 1964	Jean-Jacques Levallois	Paris, France
I.4		1965 – 1975	Michel Louis	Paris, France
I.5		1975 – 1986	Ivan I. Mueller	Columbus, USA
I.6		1987 – 1995	Carl Christian Tscherning	Copenhagen, Denmark
II.1	Manuscripta Geodaetica	1976 – 1980	Ivan I. Mueller	Columbus, USA
II.2		1980 – 1982	Peter Meissl	Graz, Austria
II.3		1982 – 1988	Erwin Groten	Darmstadt, F.R. Germany
II.4		1989 – 1991	Clyde C. Goad Erik W. Grafarend	Columbus, USA Stuttgart, Germany
II.5		1991 – 1995	Petr Vaniček	New Brunswick, Canada
III.1	Journal of Geodesy	1995 – 2003	Peter J. G. Teunissen	Delft, The Netherlands
III.2		2003 – 2007	William E. Featherstone	Perth, Australia
III.3		2007 – 2015	Roland Klees	Delft, The Netherlands
III.4		2015 – 2019	Jürgen Kusche	Bonn, Germany

Table 7 Editors of the International Association of Geodesy Symposia Series

<i>No</i>	<i>Period</i>	<i>Name of Editor</i>	<i>Residence</i>	<i>Name of Assistant Editor</i>	<i>Residence</i>
1	1991-1995	Wolfgang Torge	Hannover, Germany		
2	1995-1999	Klaus-Peter Schwarz	Calgary, Canada		
3	1999-2003	Fernandó Sansó	Milan, Italy		
4	2003-2007	Gerhard Beutler	Bern, Switzerland		
5	2007-2011	Michael G. Sideris	Calgary, Canada		
6	2011-2015	Chris Rizos	Sydney, Australia	Pascal Willis	Paris, France
7	2015-2019	Jeff Freymueller	Fairbanks, USA	Laura Sánchez	Munich, Germany

Table 8 Editors of The Geodesist's Handbook

No	Year	Editor	Residence
1	1980	Ivan I. Mueller	Columbus, USA
2	1984	Carl Christian Tscherning	Copenhagen, Denmark
3	1988	Carl Christian Tscherning	Copenhagen, Denmark
4	1992	Carl Christian Tscherning	Copenhagen, Denmark
5	1996	Pascal Willis	Paris, France
6	2000	Ole B. Andersen	Copenhagen, Denmark
7	2004	Ole B. Andersen	Copenhagen, Denmark
8	2008	H. Drewes, H. Hornik / J. Ádám, Sz. Rózsa	Munich, Germany / Budapest, Hungary
9	2012	H. Drewes, H. Hornik / J. Ádám, Sz. Rózsa	Munich, Germany / Budapest, Hungary
10	2016	H. Drewes, F. Kuglitsch / J. Ádám, Sz. Rózsa	Munich & Potsdam, Germany / Budapest, Hungary

Table 9 Guy Bomford Prize Awardees of the IAG

No	Year	Name of Awardee	Residence
1	1975	Erik Grafarend	Munich, F.R.Germany
2	1979	Fernandó Sansó	Milan, Italy
3	1983	John Wahr	Boulder, USA
4	1987	Peter J. Teunissen	Delft, The Netherlands
5	1991	Shuhei Okubo	Tokyo, Japan
6	1995	Thomas Herring	Cambridge, USA
7	1999	Véronique Dehant	Brussels, Belgium
8	2003	Ramon Hanssen	Delft, The Netherlands
9	2007	Masato Furuya	Tokyo, Japan
10	2011	Johannes Böhm	Vienna, Austria
11	2015	Yoshiyuki Tanaka	Tokyo, Japan

Table 10 Levallois Medal Awardees of the IAG

No	Year	Name of Awardee	Residence
1	1979	Charles Whitten	Washington, USA
2	1983	Rudolf Sigl	Munich, F.R.Germany
3	1987	Arne Bjerhammar	Stockholm, Sweden
4	1991	Paul Melchior	Brussels, Belgium
5	1995	Willem Baarda	Delft, The Netherlands
6	1999	Torben Krarup	Copenhagen, Denmark
7	2003	George Veis	Athens, Greece
8	2007	Carl Christian Tscherning	Copenhagen, Denmark
9	2011	Ruth E. Neilan	Pasadena, USA
10	2015	Reiner Rummel	Munich, Germany

Table 11 IAG Best Young Author Awardees

No	Year	Author's Name	Country	Title of the Publication
1	1993	Hussein A. Abd-Elmotaal	Egypt	Vening-Meinesz Moho depths: traditional, exact and approximated. <i>Manuscripta Geodaetica</i> , 18: 171-181
2	1994	Jean-Pierre Barriot	France	Line of sight operators in planetary geodesy. <i>Manuscripta Geodaetica</i> , 19: 269-283
3	1995	Srinivas V. Bettadpur	India	Hotine's geopotential formulation revisited. <i>Bull. Géod.</i> , 69: 135-142.
4	1996	Giovanna Sona	Italy	Numerical problems in the computation of ellipsoidal harmonics. <i>Journal of Geodesy</i> , 70: 117-126.
5	1998	Cheinway Hwang	Taiwan	Inverse Vening-Meinesz formula and deflection-geoid formula: applications to the predictions of gravity and geoid over the South China Sea. <i>Journal of Geodesy</i> , 72: 304-312.
6	1999	Peiliang Xu	China	Biases and accuracy of, and an alternative to, discrete nonlinear filters. <i>Journal of Geodesy</i> , 73: 35-46.
7	2000	Christopher Kotsakis	Canada	The multiresolution character of collocation. <i>J. of Geodesy</i> , 74: 275-290

Table 11 continued

No	Year	Author's name	Country	Title of the Publication
8	2000	Rüdiger Lehmann	Germany	Altimetry-gravimetry problems with free vertical datum. <i>Journal of Geodesy</i> , 74: 327-334.
9	2001	Susan Skone	Canada	The impact of magnetic storms on GPS receiver performance. <i>Journal of Geodesy</i> , 75: 457-468.
10	2003	Michael Kern	Germany	A study on the combination of satellite, airborne and terrestrial gravity data (with K.-P. Schwarz and N. Sneeuw). <i>J. of Geodesy</i> , 77: 217-225.
11	2004	Shfaqat Abbas Khan	Pakistan	Shallow water loading tides in Japan from superconducting gravity (with J.L. Hoyer). <i>Journal of Geodesy</i> , 78: 245-250.
12	2005	Roland Pail	Austria	A parametric study on the impact of satellite attitude errors on GOCE gravity field recovery. <i>Journal of Geodesy</i> , 79: 231-241.
13	2006	Steffen Schön	Germany	Uncertainty in GPS networks due to remaining systematic errors: the internal approach (with H. Kutterer). <i>Journal of Geodesy</i> , 80: 150-162.
14	2008	Franziska Wild-Pfeiffer	Germany	A comparison of different mass elements for use in gravity gradiometry. <i>Journal of Geodesy</i> , 82: 637-653.
15	2010	Elizabeth Petri	UK	A first look at the effects of ionospheric signal bending on a globally processed GPS network. <i>Journal of Geodesy</i> , 84: 491-499.
16	2011	Thomas Artz	Germany	Assessment of periodic sub-diurnal Earth rotation variations at tidal frequencies through VLBI normal equations. <i>J of Geodesy</i> , 85, 565-584.
17	2012	Manuela Seitz	Germany	The 2008 DGFI realization of the ITRS: DTRF2008. <i>Journal of Geodesy</i> , 86: 1097-1123.
18	2013	Krzysztof Sośnica	Switzerland	Impact of loading displacements on SLR-derived parameters and on the consistency between GNSS and SLR results. <i>J of Geodesy</i> , 87: 751-769.
19	2014	Alvaro Santamaría Gómez	France	Long-term vertical land motion from double-differenced tide gauge and satellite altimetry data. <i>Journal of Geodesy</i> , 88: 207-222.

Table 12 IAG Services

No	Acronym	Name of the IAG Service (and Address of the Homepage)	Year of Formation
1	BGI	Bureau Gravimétrique International / http://bgi.omp.obs-mip.fr	1951
2	BIPM	Bureau International des Poids et Mesures – Time Department / http://www.bipm.org	1875
3	ICGEM	International Centre for Global Earth Models / http://icgem.gfz-potsdam.de/ICGEM	2003
4	IDEMS	International Digital Elevation Models Service / http://TBD	1999
5	IDS	International DORIS Service / http://ids.cls.fr	2003
6	IERS	International Earth Rotation and Reference Systems Service / http://www.iers.org	1987
7	IGETS	International Geodynamics and Earth Tide Service / http://igets.u-strasbg.fr/	2015
8	IGFS	International Gravity Field Service / http://www.igfs.net	2004
9	IGS	International GNSS Service / http://igsceb.jpl.nasa.gov	1994
10	ILRS	International Laser Ranging Service / http://ilrs.gsfc.nasa.gov	1998
11	ISG	International Service for the Geoid / http://www.iges.polimi.it	1991
12	IVS	International VLBI Service for Geodesy and Astrometry / http://ivscc.gsfc.nasa.gov	1999
13	PSMSL	Permanent Service for Mean Sea Level / http://www.psmsl.org/	1933

Table 12 continued: Historical IAG Services

BIH	Bureau International de l'Heure (1987 integrated into IERS)	1912
ICET	International Center for Earth Tides (2015 integrated into IGETS)	1956
ILS	International Latitude Service (1962 International Polar Motion Service, IPMS)	1899
IPMS	International Polar Motion Service (Successor of ILS, 1987 integrated into IERS)	1962

Table 13 Fellows of the IAG**1991:**

D.A. Adebekun, Nigeria
D.-E. Ajakaiye, USA
V. Ashkenazi, UK
W. Augath, Germany
T.F. Baker, UK
G. Balmino, France
L.W. Baran, Poland
G. Birardi, Italy
A. Bjerhammar, Sweden
D. Blitzkow, Brazil
Y. Bock, USA
G. Boedecker, Germany
J.D. Bossler, USA
C. Boucher, France
P. Brosche, Germany
F.K. Brunner, Austria
M. Burša, Czech Republic
J. Campbell, Germany
G. Carrera, Canada
M. Charfi, Tunisia
J. Y. Chen, China
B. H. Chovitz, USA
O. Coker, Nigeria
O. L. Colombo, USA
A. Comolet-Tirman, France
A.H. Cook, UK
P.A. Cross, UK
K. I. Daugherty, USA
P. de Jonge, USA
A. Dermanis, Greece
J.O. Dickey, USA
A.H. Dodson, UK
B.C. Douglas, USA
A. Drozzyner, Poland
H. Dufour, France
D. Eckhardt, USA

1995:

J. Ádám, Hungary
R. Barzaghi, Italy
M. Becker, Germany
G. Beutler, Switzerland
W. Bosch, Germany
B.F. Chao, USA
H. Denker, Germany
J. Dow, Germany

O. Fadahunsi, Nigeria
F. Fajemirokun, Nigeria
M. Feissel-Vernier, France
I. Fejes, Hungary
I.K. Fischer, USA
R. Forsberg, Denmark
P. Forsyth, Canada
D. Fritsch, Germany
J. Gaignebet, France
E.M. Gaposchkin, USA
C. Gemaël, Brazil
C.C. Goad, USA
E.W. Grafarend, Germany
E. Groten, Germany
E. Gubler, Switzerland
B. Guinot, France
B. Heck, Germany
G. Hein, Germany
H. Henneberg, Venezuela
S. Henriksen, USA
P. Holota, Czech Republic
L. Hora, Czech Republic
H.T. Hsu, China
J.R. Huddle, USA
C. Jekeli, USA
G. Jentzsch, Germany
I. Joó, Hungary
C.S. Joshi, India
H.-G. Kahle, Switzerland
H.P. Kahmen, Austria
J. Kakkuri, Finland
K. Kasahara, Japan
E. Kausel, Chile
H. Kautzleben, Germany
A.H.W. Kearsley, Australia
R.W. King, USA
A. Kiviniemi, Finland

G.K. Elgered, Sweden
B. Engen, Norway
A. Geiger, Switzerland
T. Kato, Japan
A. Kleusberg, Germany
J. Kouba, Canada
H. Landau, Germany
R.B. Langley, Canada
K. Linkwitz, Germany

R. Klees, The Netherlands
K.R. Koch, Germany
B. Kolaczek, Poland
K. Konan, Ivory Coast
J. Kovalevsky, France
Y. Kozai, Japan
J. Krynski, Poland
M. Kumar, USA
J.T. Kuo, USA
M.P.M. Lefebvre, France
D. Lelgemann, Germany
G.W. Lennon, Australia
G. Lensen, New Zealand
J.-J. Levallois, France
E. Livieratos, Greece
M. Louis, France
G.R. Mader, USA
J. Makris, Germany
A. Mancini, USA
I. Marson, Italy
M. McNutt, USA
D.D. McCarthy, USA
W.G. Melbourne, USA
P. Melchior, Belgium
C. Morelli, Italy
H. Moritz, Austria
I.I. Mueller, USA
I. Nakagawa, Japan
A. Nobili, Italy
J.D. Obel, Kenya
M. Odlanicki-Poczobut, Poland
B.P. Pertsev, Russia
K. Poder, Denmark
C. Poitevin, Belgium
M.T. Prilepin, Russia
J. Rais, Indonesia

S. Molodensky, Russia
R. Neilan, USA
C. Noll, USA
S. Okubo, Japan
P. Pâquet, Belgium
J.C. Ries, USA
J.M. Rüeger, Australia
E.J.O. Schrama, The Netherlands

R.H. Rapp, USA
C. Reigber, Germany
A.R. Robbins, UK
R.S. Rostom, Kenya
R. Rummel, Germany
F. Sacerdote, Italy
F. Sansó, Italy
N.K. Saxena, USA
B. Schaffrin, USA
G. Schmitt, Germany
B.E. Schutz, USA
K.-P. Schwarz, Canada
G. Seeber, Germany
M.J. Sevilla, Spain
P.J. Shelus, USA
M.G. Sideris, Canada
L.E. Sjöberg, Sweden
R.A. Snay, USA
H. Sünkel, Austria
T. Tanaka, Japan
P. Teunissen, The Netherlands
W. Torge, Germany
C.C. Tscherning, Denmark
P. Vaniček, Canada
C. Veillet, France
P. Vyskočil, Czech Republic
A. Waalewijn, The Netherlands
J. Wahr, USA
D.E. Wells, Canada
W.M. Welsch, Germany
L.A. White, Australia
P. Wilson, Germany
P.L. Woodworth, UK
Y.Y. Yatskiv, Ukraine
K. Yokoyama, Japan
D.B. Zilkoski, USA
J.D. Zund, USA

C.-K. Shum, USA
T.A. Spoelstra, The Netherlands
S. Takemoto, Japan
C. Thomas, France
J.A. Weightman, UK
P. Willis, France
C. Wilson, USA
T. Yunck, USA

Table 13 continued

1999:	<i>G. Blewitt</i> , UK	<i>W. Featherstone</i> , Australia	<i>N. Pavlis</i> , USA
<i>N. Andersen</i> , Denmark	<i>J.M. Bosworth</i> , USA	<i>W. Freeden</i> , Germany	<i>C. Rizos</i> , Australia
<i>O. Andersen</i> , Denmark	<i>A. Cazenave</i> , France	<i>T. Herring</i> , USA	<i>C. Rocken</i> , USA
<i>D. Arabelos</i> , Greece	<i>T.A. Clark</i> , USA	<i>K.-H. Ilk</i> , Germany	<i>I.N. Tziavos</i> , Greece
<i>M.G. Arur</i> , India	<i>J. Degnan</i> , USA	<i>J. Johanssen</i> , Sweden	<i>M. Vermeer</i> , Finland
<i>L. Ballani</i> , Germany	<i>V. Dehant</i> , Belgium	<i>P. Knudsen</i> , Denmark	<i>M. Wei</i> , Canada
<i>G.B. Benciolini</i> , Italy	<i>H. Drewes</i> , Germany	<i>Z.-X. Li</i> , China	<i>D. Wolf</i> , Germany
<i>M.G. Bevis</i> , USA	<i>B. Ducarme</i> , Belgium	<i>J. Manning</i> , Australia	<i>S. Zerbini</i> , Italy
2003:	<i>W. Gurtner</i> , Switzerland	<i>R. Lehman</i> , Germany	<i>C. Tiberius</i> , The Netherlands
<i>E.F. Arias</i> , Argentina	<i>S. Han</i> , Australia	<i>A. Marchenko</i> , Ukraine	<i>H. van der Marel</i> , The Netherlands
<i>J.-P. Barriot</i> , France	<i>R. Hanssen</i> , The Netherlands	<i>R. Scharroo</i> , The Netherlands	<i>N. Vandenberg</i> , USA
<i>P.A. Berry</i> , UK	<i>B.G. Harsson</i> , Norway	<i>W. Schlüter</i> , Germany	<i>P. Visser</i> , The Netherlands
<i>C.A. Brunini</i> , Argentina	<i>C. Hwang</i> , Taiwan	<i>T. Schöne</i> , Germany	<i>L. Vitushkin</i> , France
<i>C. Bruyninx</i> , Belgium	<i>W. Keller</i> , Germany	<i>S. Skone</i> , Canada	<i>J. Vondrak</i> , Czech Republic
<i>D. Gambis</i> , France	<i>S.C. Kenyon</i> , USA	<i>N. Sneeuw</i> , Canada	<i>R. Weber</i> , Austria
<i>G. Gendt</i> , Germany	<i>R. Kursinski</i> , USA	<i>M. Stewart</i> , Australia	<i>Y. Yuanxi</i> , China
<i>R.S. Gross</i> , USA	<i>H. Kutterer</i> , Germany	<i>G. Strykowski</i> , Denmark	
2007:	<i>K. Heki</i> , Japan	<i>M.C. Pacino</i> , Argentina	<i>J.A. Torres</i> , Portugal
<i>Z. Altamimi</i> , France	<i>L. Hothem</i> , USA	<i>M.R. Pearlman</i> , USA	<i>Gy. Tóth</i> , Hungary
<i>R. Biancale</i> , France	<i>J. Huang</i> , China	<i>H.-P. Plag</i> , USA	<i>P. Tregoning</i> , Australia
<i>M. Craymer</i> , Canada	<i>J. Ihde</i> , Germany	<i>M. Poutanen</i> , Finland	<i>M. Verroneau</i> , Canada
<i>D. Crossley</i> , USA	<i>M. Kuhn</i> , Australia	<i>B. Richter</i> , Germany	<i>J. Wang</i> , Australia
<i>R. Dietrich</i> , Germany	<i>J. Kusche</i> , The Netherlands	<i>M. Rothacher</i> , Germany	<i>R. Wonnacott</i> , South Africa
<i>X. Ding</i> , Hong Kong	<i>U. Marti</i> , Switzerland	<i>Sz. Rózsa</i> , Hungary	<i>P. Xu</i> , Japan
<i>L.P.S. Fortes</i> , Brazil	<i>C. Merry</i> , South Africa	<i>M. Scheinert</i> , Germany	<i>J. Yu</i> , China
<i>Y. Gao</i> , Hong Kong	<i>A.W. Moore</i> , USA	<i>H. Schuh</i> , Austria	<i>S.Y. Zhu</i> , Germany
<i>D. Grejner-Brzezinska</i> , USA	<i>P. Novák</i> , Czech Republic	<i>H.-P. Sun</i> , China	
2011:	<i>Y. Fukuda</i> , Japan	<i>Gy. Mentés</i> , Hungary	<i>M. Schmidt</i> , Germany
<i>H. Abd-Elmotaal</i> , Egypt	<i>Th. Hobiger</i> , Japan	<i>A. Michlenz</i> , Germany	<i>F. Seitz</i> , Germany
<i>L. Alfonsi</i> , Italy	<i>H. Hornik</i> , Germany	<i>M. Omura</i> , Japan	<i>L. Soudarin</i> , France
<i>D. Behrend</i> , USA	<i>S. Jin</i> , South Korea	<i>R. Pail</i> , Germany	<i>G. Tavernier</i> , France
<i>S. Bettadpur</i> , USA	<i>M.O. Kararlioglu</i> , Turkey	<i>J. Ray</i> , USA	<i>S. Verhagen</i> , The Netherlands
<i>S. Bisnath</i> , Canada	<i>Ch. Kotsakis</i> , Greece	<i>A. Reiterer</i> , Germany	<i>Y.M. Wang</i> , USA
<i>A. Brzezinski</i> , Poland	<i>S. Lambert</i> , France	<i>G. Retscher</i> , Austria	<i>J. Wickert</i> , Germany
<i>T. van Dam</i> , Luxembourg	<i>F. Lemoine</i> , USA	<i>L.J. Rickards</i> , UK	<i>H. Wilmes</i> , Germany
<i>J. Davis</i> , USA	<i>C. Ma</i> , USA	<i>D. Roman</i> , USA	
<i>Y. Feng</i> , Australia	<i>Z. Malkin</i> , Russia	<i>L. Sanchez</i> , Germany	
<i>J. Freymueller</i> , USA	<i>S. Matsuzaka</i> , Japan	<i>M. Santos</i> , Canada	
2015:	<i>J. Chen</i> , USA	<i>G. Johnston</i> , Australia	<i>M. Reguzzoni</i> , Italy
<i>D. Angermann</i> , Germany	<i>R. Cunderlik</i> , Slovakia	<i>A. Kealy</i> , Australia	<i>S. Rosat</i> , France
<i>D. Avalos</i> , Mexico	<i>X. Deng</i> , Australia	<i>Sh. Abbas Khan</i> , Denmark	<i>M. Thomas</i> , Germany
<i>F. Barthelmes</i> , Germany	<i>J. Dawson</i> , Australia	<i>M. King</i> , Australia	<i>M. Weigelt</i> , Germany
<i>O. Baur</i> , Austria	<i>A. Eicker</i> , Germany	<i>W. Kosek</i> , Poland	<i>B. Wouters</i> , UK/USA
<i>J. Boehm</i> , Austria	<i>J. Ferrandiz</i> , Spain	<i>K. Mikula</i> , Slovakia	<i>Li Zhenhong</i> , UK
<i>J. Bogusz</i> , Poland	<i>Ch. Gerlach</i> , Germany	<i>H. Ozener</i> , Turkey	
<i>S. Bonvalot</i> , France	<i>M. Hashimoto</i> , Japan	<i>S. Pagiatakis</i> , Canada	
<i>C. Braitenberg</i> , Italy	<i>A. Jäggi</i> , Switzerland	<i>V. Palinkas</i> , Czech Republic	