

MINUTES



**INTERNATIONAL UNION OF GEOLOGICAL SCIENCES
67th EXECUTIVE COMMITTEE MEETING**

February 8-10, 2014

**Bogmallo Beach Resort Hotel, Goa – 403806 India
Coral Meeting Room**

**INTERNATIONAL UNION OF GEOLOGICAL SCIENCES
67TH EXECUTIVE COMMITTEE MEETING**

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Participants

IUGS Executive Committee:

Roland OBERHAENSLI (RO; President), DONG Shuwen (DS; Treasurer), Marko KOMAC (MK; Vice President), Yildirim DILEK (YD; Vice President), Hassina MOURI (HM; Councillor), Yujiro OGAWA (YO; Councillor), Wesley HILL (WH; Councillor), Sampat Kumar TANDON (ST; Councillor)

Regrets:

Ian LAMBERT (IL; IUGS Secretary General)

Observers (attending parts of the meeting):

Tanvi ARORA (Young Earth Scientists Network, YES), D.M. BANERJEE (Indian National Science Academy, INSA), Daniel BARNARDO (35th International Geological Congress, IGC), Peter BOBROWSKY (IUGS Webmaster), Qiuming CHENG (International Association for Mathematical Geosciences, IAMG), Mervin J. D'SOUZA (36th IGC), FAREEDUDDIN (Episodes), Harsh GUPTA (International Union of Geodesy and Geophysics, IUGG), Hiroshi KITAZATO (Japanese National Committee), Ben MAPANI (IUGS Commission on Geoscience for Environmental Management, GEM), Brian MARKER (IUGS Publications Committee), Rahul MOHAN (Indian National Centre for Antarctic and Ocean Research, NCAOR), Edmund NICKLESS (IUGS New Activities Strategic Implementation Committee, NASIC), Alison ORD (IUGS Commission on Tectonics and Structural Geology, TECTASK), Dolores PEREIRA (IUGS Publications Committee), R. SHANKAR (IUGS Commission on Education, Training and Technology Transfer, COGE), A.K. SINGHVI (Indian Physical Research Laboratory, PRL), Rajan SIVARAMAKRISHNAN (NCAOR), S.K. WADHAWAN (36th IGC), WEN Jun (Assitant to the IUGS Treasurer)

IUGS Secretariat:

WANG Wei (Director), Anne LIINAMAA-DEHLS (Executive Secretary), LI Wei (Secretary), GU Yanfei (Secretary), CHEN Zhu (IT Specialist)

1. Opening and Welcoming Addresses

D.M. Banerjee, Chair of the Indian National Committee for IUGS and on behalf of the Indian hosts, welcomed all the participants in the 67th IUGS Executive Committee (EC) meeting locally supported by the Indian National Science Academy (INSA) and the Ministry of Earth Sciences of India (MoES), and briefly introduced the role and the recent major activities of the Indian National Committee for IUGS.

Rajan Sivaramakrishnan, Director of the Indian National Centre for Antarctic and Ocean Research (NCAOR), a scientific organization under MoES and the local organizer of the meeting, briefly introduced the scientific programmes of NCAOR and invited all the participants to visit NCAOR based in Goa, India.

Roland OBERHAENSLI (RO), IUGS President, sincerely thanked the Indian hosts for the excellent preparations for the meeting, expressed congratulations to India for the successful bid for the 36th IGC in 2020, welcomed all the participants in the 67th IUGS EC meeting and passed on the regrets of Ian Lambert (Secretary General).

2. Discussion and Approval of Agenda

Agenda approved with two additional topics under the item 4.f. "Bureau's Report on Implementation of IUGS Strategic Plan" by RO and the item 11.d. "ICSU Regional Offices" by Hassina Mouri (HM).

3. 2013 Executive Committee and Bureau Meetings

3.a. 66th Executive Committee Meeting, Paris, 19-22 February, 2013

(i) **Approval of Minutes:** Approved by e-mail on 27 June, 2013.

(ii) **Status of Actions Arising:** Distributed through e-mail and commented on ahead of the EC meeting.

3.b. Bureau Meeting at GSA Annual Meeting, Denver, 25 October, 2013

RO reflected upon the major activities of the Bureau members in Denver, including: discussion on the IUGS running budget, consultation with IUGS New Activities Strategic Implementation Committee (NASIC) on the IUGS new initiative - Resourcing Future Generations (RFG) report, discussion with the Organizing Committee of the 35th IGC in South Africa on the preparations for the Congress, and interaction with the Geological Society of America (GSA) and the U.S. National Committee for IUGS.

RO recalled that the IUGS booth exhibition, organized by the IUGS Secretariat at GSA's 125th Anniversary Annual Meeting & Exposition, was a success and expected more presence of IUGS at exhibitions of major international events in the future to increase the visibility of IUGS.

4. Executive Committee Reports

4.a. President's Report (Roland OBERHAENSLI)

RO referred the EC to his submitted report. He remained active interaction and communication with UNESCO on cooperation in geosciences, and briefly introduced the situation facing the International Geoscience Programme (IGCP) and geoparks within

UNESCO. He represented IUGS at the following meetings in 2013: the Sendai Workshop on Natural Hazards, GSA annual meeting in Denver, Group on Earth Observations (GEO) meeting in Geneva, African Geological Congress in Addis Ababa, EuroGeoSurvey meeting in Brussels, ICSU meeting in Paris, GeoUnion meetings in Paris and Antalya, CCOP Scientific Committee board meeting in Sendai, IUGG Secretariat inauguration in Potsdam and other local meetings in Europe. He wrote a short chapter about IUGS in the UN book "Valid" on the Value of Geoinformatics in Disaster and Risk Management.

He thanked Mudlappa Jayananda, the former Editor of Episodes, for his contributions and Fareduddin, the current Editor, for his efforts in the smooth transition.

He also mentioned that the GeoUnions decided to make proposals (including RFG initiative) to ICSU with the aim of having earth sciences to be included into Future Earth Initiative.

4.b. Secretary General's Report (RO for Ian Lambert)

RO referred the EC to Ian Lambert's submitted report.

4.c. Treasurer's Report (DONG Shuwen)

Dong Shuwen (DS) reported that the current IUGS balance was US\$ 1,354,002.19, US\$ 1,027,003.70 of which was reserves in investment accounts. He reported that the total income and expenditures of IUGS in 2013 amounted to US\$ 522,377.71 and US\$ 449,052.76 respectively, which contributed to a net income of US\$ 73,324.95, with an increase of US\$ 111,731.47 compared with the year of 2012. The year 2013 witnessed an evident increase of 45% for IUGS' membership fees compared with the year 2012, mainly attributed to the following factors: (1) A number of Adhering Organizations (AOs) delayed the payment of their 2012 membership fees to the year 2013; (2) Several AOs paid their accumulated membership fees for the previous years in 2013; (3) The IUGS Secretariat mailed hard copies of 2013 Invoice for IUGS Membership Fees and Benefits of Being an IUGS Member to all the IUGS AOs to strengthen links with IUGS bodies.

4.d. Permanent Secretariat's Report (WANG Wei)

Wang Wei (WW), the Secretariat Director (from September 2013), reported that in the year 2013 the Secretariat prepared for the 66th and 67th EC Meetings, prepared for the Bureau Meeting and IUGS booth exhibition at GSA's 125th Anniversary Annual Meeting & Exposition, improved the contact database and strengthened links with IUGS bodies, developed and put in use the IUGS Information Management System, assisted in membership maintenance, sent requests for ratification by Council on seven items, distributed E-Bulletins monthly, drafted 2012 IUGS Annual Report, completed China custom clearance of and properly stored IUGS paper archives in Beijing, as well as designed and produced IUGS Promotional Items. He thanked the former Secretariat Director Li Zhijian (retired in September 2013) for his critical contributions, Executive Secretary Anne Liinamaa-Dehls for the considerable work she accomplished, and the whole EC, in particular the Bureau, for guidance and support.

RO expressed his thanks to the Secretariat for its efforts in the transition year and to the former Secretariat Director Li Zhijian for his contributions.

4.e. Optional Reports by Other EC members

No further contributions.

4.f. Bureau's Report on Implementation of IUGS Strategic Plan (Roland OBERHAENSLI)

Harsh Gupta (HG), IUGG President, pointed out that in the 21st Century the role of earth sciences was irreplaceable and suggested IUGS make a better impact on geosciences

within UNESCO. He also noticed the latest changes in ICSU Future Earth initiative, which newly included water, energy etc. and called for a better impact on Future Earth initiative through GeoUnions.

RO mentioned UNESCO's proposed restructuring of geosciences within itself to formalize the link between UNESCO and the Global Geoparks Network (GGN) through IGCP. Under the proposal, geoparks would be put under the umbrella of IGCP and "the UNESCO Global Geoparks Initiative (UGGI)" would be established and supported by a Scientific Committee, which would make recommendations to the IGCP Bureau for the final decision on designating UNESCO Global Geoparks. He pointed out that UNESCO would like to seek IUGS' feedbacks on the above proposal and enhance the role of IUGS as a key scientific partner both in IGCP and geoparks. He said that he had already drafted a response letter to UNESCO, deliberating on IUGS' stands and suggestions on the restructuring of IGCP and geoparks as well as IUGS' contributions as a scientific partner of UNESCO, and would accumulate the comments from the EC members and send the letter to UNESCO in time.

Yildirim Dilek (YD) stressed the importance of IGCP as a flagship international geoscience programme over the past decades but pointed out the decreasing visibility of IGCP in recent years. He referred to the Ad-hoc Review Committee (ARC) report on IGCP in 2013 on a series of recommendations to the IUGS EC and UNESCO for the restructuring and future development of IGCP, and suggested that proactive efforts should be made to streamline, modernize and rejuvenate IGCP.

Marko Komac (MK) suggested that IUGS as a scientific partner should actively engage in and provide financial support within ability to the geoparks initiative within UNESCO with the consideration that geoparks serve as an important vehicle for geosciences to reach out towards the general public.

Qiuming Cheng, IAMG Chairman, suggested that IUGS make closer collaboration with its Affiliated Organizations with regard to IGCP projects, recalled the success of 2 previous IGCP projects undertaken by IAMG, and offered to apply for a new IGCP project in mineral resources assessment in the near future and fully fund the new IGCP project if approved.

5. IUGS Bodies: Annual Reports and Future Plans

5.a. Commissions

5.a.1 International Commission on Stratigraphy (ICS) (Roland OBERHAENSLI)

RO referred to ICS' submitted report. ICS sponsored the 1st International Congress on Stratigraphy in Lisbon, Portugal in July 2013 and was awarded a grant of US\$ 75,000 from U.S. National Science Foundation (NSF) for 3 years. 62 of the 100 GSSPs that defined the systems, series and stages of the Phanerozoic were ratified, and the new Chronostratigraphic Chart was published in close connection with CGMW and translated into several languages. 2013 ICS Chronostratigraphic Chart was produced as a 5-story mural in a building at Shell International Headquarters and Shell provided a donation of 10,000 Euros to sponsor scientific events and produce products concerning the Chart for free distribution at international meetings. The sub-Commissions put a lot of efforts in ratifying GSSPs.

RO mentioned that IUGS, in particular the Treasurer, had tried every means in assisting ICS in applying for the grant from NSF through the IUGS account. But due to legal issues, it did not work in the end.

RO recalled the Bureau members and Stanley Finney, ICS Chair, attended before the 2013 GSA annual meeting the inauguration ceremony of a "golden spike" for the Turonian Stage

(Upper Cretaceous), which was ratified in 2013, outside of Pueblo, Colorado. RO considered that such activities were of great importance and would be conducive to geoscience popularization and education.

5.a.2. Education, Training and Technology Transfer (COGE) (R. SHANKAR)

R. Shankar (RS) reported COGE's objectives, commissioners, interacting organizations, major activities & publications in 2013 and work plan for 2014. In 2013, COGE further pushed forward "the Geoscience Education Roadmap for Africa Project (GEO-ERA)". A specific collaboration was initiated with Earth Science Matters Foundation (ESM) to retrieve quantitative data regarding geo-education in Africa from different databases. COGE and the International Association for Geoscience Diversity (IAGD) jointly organized a booth exhibition at the 2013 GSA annual meeting. COGE Chair was appointed as the President of the International Association for Geoethics (IAGETH). In cooperation with IGEO, the development of a recommended syllabus for geoscience education in schools was nearly completed. COGE supports the forthcoming 7th International Conference on Geoscience Education (GeoSciEd) in Indian in 2014.

A. K. Singhvi from the Indian Physical Research Laboratory pointed out that 25% overheads were too high and it would be more conducive if the charged overheads could be used for scientific activities.

RS called for support for the International Earth Science Olympiad (IESO) and mentioned that the organizing country of IESO would be transferred from the United State to Spain or Israel.

RO commented that the IUGS EC considered IESO as being of high value and strongly supported it, but the financial support to a single meeting would be subject to the decision of the IUGS EC in the closed session of the meeting.

5.a.3. Management & Application of Geoscience Information (CGI) (Roland OBERHAENSLI)

RO referred to CGI's submitted report.

5.a.4. History of Geological Sciences (INHIGEO) (Roland OBERHAENSLI)

RO referred to INHIGEO's submitted report.

5.a.5. Tectonics and Structural Geology (TecTask) (Alison ORD)

Alison Ord (AO), TecTask Chairman, reported TecTask's objectives, organization, member bodies, activities & responsibilities, major achievements in 2013 and work plan for 2014. In 2013, TecTask sponsored the 19th International Conference on Deformation Mechanisms, Rheology & Tectonics (DRT) in Leuven, Belgium in September 2013. TecTask established Henk Zwart Award and the inaugural ceremony for the Award was held during DRT 2013. International cooperation was conducted in Europe, Asia, Middle East, Americas, Africa etc. Other activities were involved in Outcropedia, heritage protection, geohazards, Glacial Watch and industry engagement.

5.a.6. Geoscience for Environmental Management (GEM) (Brian MARKER)

Brian Marker (BM) reported that GEM's objectives, major work in 2013 and work plan for 2014. In 2013, GEM elected new Chairman Ben Mapani (Nambia) and new officers in 2013. GEM business meetings were held in Catamarca, Argentina in April 2013. He also reported the major activities of GEM's seven Working Groups respectively on Climate Change Adaptation, Drinking water, Dust, Gold and Mercury, Land Subsidence and Groundwater, Man-made Strata and Geo-pollution, and Natural Hazards and Territorial Sustainability.

5.b. Task Groups

5.b.1. Global Geochemical Baselines (TGGGB) (Sampat TANDON)

Sampat Tandon (ST) reported TGGGB's mission, current membership, organization, activities, interface with other international projects, selected accomplishments, problems encountered in 2013, and work plan for 2014. In 2013, TGGGB organized Geochemical Mapping Training Course (Workshop on CCOP-ASEAN Geochemical Mapping held in Nanning, China in September 2013). The proposal for establishment of International Centre on Global Scale Geochemistry in Langfang, China was approved by UNESCO at its 37th Session in November 2013.

5.b.2. Geoheritage(GTG) (Peter BOBROWSKY)

Peter Bobrowsky (PB) reported GTG's objectives, organization, activities in 2013 and plan of action for 2014. In 2013, GTG convened sessions and presented papers at several international meetings, including the 8th International Congress of Geomorphology etc. GTG began to establish a database for regulations on geoheritage, put efforts into the public accessibility of the Geosite database with a list of 130 sites documented and reported on a Google map, and developed a web page of GSSP Geosites <http://geoheritage-iugs.mnhn.fr/index.php?catid=8&blogid=1>.

5.b.3. Heritage Stone (HSTG) (Dolores PEREIRA)

Dolores Pereira (DP) reported HSTG's objectives, brief history, board of management, major achievements in 2013, links with other organizations, future work plan and long term benefits of HSTG activities. In 2013, a "Check List of GHSR Characteristics" and a "Check List of Characteristics for a "Global Heritage Stone Province" were approved. The website www.globalheritagestone.org was maintained and expanded. Two general Task Group reports were published in Episodes. A model GHSR nomination was prepared for Portland Stone (UK) and also published in Episodes. An "Interim or Standing List of Potential GHSRs" was maintained. The network of HSTG correspondents continued to expand.

5.b.4. Global Geoscience Professionalism (TG-GGP) (Peter BOBROWSKY)

PB reported TG-GGP's mission and vision, objectives, member organizations, activities in 2013, collaborating organizations, and work plan for 2014. In 2013, talks and presentations were given at the international events during the year about the creation of the new Task Group, highlighting its rationale and action plan and seeking further involvement by other professional geoscience organizations and other interested parties. TG-GGP completed all initial content and the launch of the Task Group website at www.tg-ggp.org in October 2013. An Information Release in several languages was prepared and distributed in November 2013 announcing the creation of the Task Group and the opening of the website to the broader geoscience community globally. Several Task Group Committee meetings were held.

5.c. Initiative

5.c.1. Initiative on Forensic Geology (IFG) (Peter BOBROWSKY)

PB reported IFG's background, committee structure and management, chief accomplishments, main products, Geoforensic International Network and work plan ahead. In 2013, IFG contributed to and completed over a number of capacity building, technology transfer and outreach events. IFG's main products in 2013 included the training and knowledge transfer courses in UK, Brazil, Russia and UAE, development and growth of IFG website, finalization and distribution of IFG flyer, finalization of IFG logo, expansion of the Geoforensic International Network (GIN), planning for the proposed document "A Guide to Forensic Geology" and a numerous related international and regional publications (including at least 60 forensic geology related publications, Confidential documents for Police and Law Enforcement etc.).

6. IUGS Membership

6.a. Report on Membership Status (DONG Shuwen)

There are all together 120 Adhering Organizations (AOs), including 80 active, 6 pending and 34 inactive. In 2013, 4 AOs (Mozambique, Cuba, Tunisia and the Netherlands) returned to the active status from the pending, inactive or withdrawal status. 5 AOs (Ivory Coast, Malawi, Mongolia, Tanzania and Uganda) downgraded from active to pending, 6 AOs (Bulgaria, Mexico, Nigeria, Sri Lanka, Sudan and Greece) from pending to inactive, and 1 AO (Algeria) was in the process of reactivating.

RO commented that the IUGS EC had been working hard to maintain the membership and sent letters on *the Benefits of Being an IUGS Member* to all the AOs. The EC had made persistent efforts to encourage the unpaid AOs to pay their membership fees through every possible channel, and several AOs are in the process of reactivating, such as Algeria. He stressed that membership maintenance was a constant process and called for the efforts of National Committees to assist in membership maintenance.

6.b. Reports of Adhering Organizations

6.b.1. The Japanese National Committee for IUGS (Hiroshi KITAZATO)

Hiroshi Kitazato, Chairman of the Japanese NC, briefly introduced the priority fields of geoscience research and education. In 2013, the Japanese NC participated in the organization of G-EVER Symposium in Sendai, Japan in October, proposed Yoro River section as mid-Pleistocene basement GSSP, discussed and established the model syllabus and curriculum for Earth Science that can adopt at all Japanese universities, proposed to host the International Earth Science Olympiad in 2016, and were actively engaged in Geoparks Network and public outreach.

RO thanked the Japanese geoscience community for its support for IUGS, and appreciated Japan's involvement in hosting the Olympiad and RFG initiative.

6.c. Inactive Adhering Organizations (Sampat TANDON)

In the last 10 years, the number of inactive AOs has varied between 23% and 34%. Between 85% and 93% of the inactive AOs belong to category 1, whose total annual fees amount to US\$ 15000/- (5% of the IUGS annual budget). IUGS could adopt the following strategies: (1) **from the resource perspective:** to encourage and persuade lower category membership AOs to move up to higher category membership; (2) **from the inclusion perspective:** to focus on AOs that have Active Pending (AP) status or have become inactive recently, and for AOs which have been inactive for longer periods (5-10 years) to locate contacts in the earth science fraternity in the region who are influential and can persuade them to be reinstated or rejoin the IUGS.

7. IUGS Affiliated Organizations

7.a. Applications for Affiliation

7.a.1. Approved by Council out of Session: International Association for Promoting Geoethics (IAPG); International Association for Geoethics (IAGETH); Earth Science Matters ESM – submitted revised application in 2013

RO brought up the issue concerning geoethics and discussed it publicly, and said that he would reply to the related persons as the IUGS President. The EC stressed integrating

affiliated geothic groups IAPG and IAGETH into IUGS Task Group on Global Geoscience Professionalism (TG-GGP).

7.a.2. Geological Association of Canada - GAC

GAC has already made application for affiliation to IUGS.

7.a.3. Others for 2014

May expect an application from an Arab group in 2014. The Arab group has already been advised to contact the Arab Geologists Association, an Affiliated Organization of IUGS.

7.b. Reports from Affiliated Organizations

RO thanked the Secretariat for the development of the IUGS Information Management System to upload reports for comments by EC members and to be open for observers. RO said the system was still in its initial stage and suggested further efforts be made to improve and optimize the system, for instance, sending reminders etc.

RO suggested the annual report format be improved in the future.

7.b.1. Commission for the Geological Map of the World (CGMW) (Roland OBERHAENSLI)

RO referred to CGMW's submitted report. The chief accomplishments in 2013 included the printing of the Structural Map of the Arabian Plate and surrounding areas at 1:4M scale and the International Geological Map of Asia at 1:5M scale in 9 sheets (IGMA 5000). He also mentioned a number of thematic maps: the Tectonic Map of Antarctica at 1:10M (2012), the Structural Map of the Atlantic Ocean at 1:20M (2012), the Tectonic Framework of the Alps at 1:1M (2012), the Metamorphic Framework of the Alps at 1:1M (2012), the Morpho-Bathymetric Map of the Mediterranean at 1:4M (2012), the Geological and Morpho-Tectonic Map of the Mediterranean Domain at 1:4M (2012) etc.

7.b.2. Young Earth Scientists Network (YES) (Arora TANVI)

Arora Tanvi, YES Secretary General, reported YES' memberships, organization, major activities, collaborative organizations, projects on the way, publications and calendar in 2014. In 2013, YES organized "YES Africa 2013" in conjunction with the 24th Colloquium of African Geology in Addis Ababa in January 2013; and a session of "Geoethics and natural hazards: the role and responsibility of the geoscientists" in association with IAPG in Vienna in April 2013. YES also participated in the 8th UNESCO Youth forum in Paris in October 2013, ESM Board Meeting, a regional meeting organized by International Geographical Union (IGU) in Tokyo, Japan and the 66th IUGS EC meeting in Paris in February 2013.

Qiuming Cheng, IAMG Chairman, welcomed YES to propose sessions and activities at the IAMG annual conference to be held in New Delhi in 2014. He mentioned that IAMG put US\$ 40,000 – 50,000 each year as research and travel grants for students, and welcomed YES members to apply.

7.b.3. International Association for Promoting Geoethics (IAPG) (Peter BOBROWSKY)

PB reported IAPG's objectives, structure and organization, chief products, major accomplishment in 2013, and work plan for 2014. The major products in 2013 included videos, a special volume on Geoethics, a number of scientific papers and posters by IAPG EC members, websites and social networks etc. The chief accomplishments in 2013 included: (1) lectures, seminars and presentations to the Board on Science Education of the National Academy of Sciences (USA), Geological Survey of Canada, University of Kiev (Ukraine) etc.; (2) organization of sessions on Geoethics at EGU 2013 and Geoitalia 2013;

(3) dissemination to the public: Round table at Geitalia 2013 and Italian Science Festival 2013; (4) affiliation to IUGS and establishment of national sections.

7.b.4. Geological Society of Africa (GSAf) (Ben MAPANI)

Ben Mapani reported GSAf's objectives, accomplishments in 2013 and work plan for 2014. In 2013, GSAf organized the 24th Colloquium of African Geology (CAG24) in Addis Ababa, Ethiopia, set up a full time secretariat in Addis Ababa, and co-organized the Western and Central Africa Mining Summit. Cooperation and projects in 2013 included: (1) Cooperation with the Association of African Women Geoscientists (AAWG) on geoparks and earth science education; (2) Cooperation with UNESCO - in Earth Science Education for Africa Network –ANESTI and climate change issues; (3) Execution of a UNESCO-SIDA additional project on abandoned mines in Africa to compliment the results of IGCP projects 594 and 606; (4) Cooperation with the African Academy of Sciences (AAS) on Solar Radiation Management Governance Initiative (SRMGI) etc. GSAf also signed Agreements with IAGETH and the International Association of Sedimentology (IAS).

7.b.5. Association of Geoscientists for International Development (AGID) (S. LIMAYE)

No presentation was given due to the absence of the AGID representative.

7.b.6. Other Affiliated Organizations

7.b.6-1. International Association for Mathematical Geosciences (IAMG) (Qiuming CHENG)

Qiuming Cheng, IAMG President, reported IAMG's brief history, mission, structure and organization, major achievements in 2013, interaction with other international organizations, student grants, key and new research fields. In 2013, 360 articles were published in IAMG journals. The 15th Annual IAMG Conference in Madrid, Spain in September 2013 had about 370 participants from over 40 countries. The IAMG co-sponsored a Compositional Data Analysis Workshop in Vorau, Austria in June 2013. Student and postdoctorate research was financially supported by US\$ 33,500 in research and travel grants in 2013. He introduced the key and competitive research fields of IAMG: sedimentation processes modeling and quantitative stratigraphy; geostatistics and multivariate statistics; and mineral and energy resources quantitative assessments. He also introduced the new fields and challenges of resources assessment in space, oceans, Arctic and covered areas.

Qiuming Cheng once again welcomed YES members to apply for the IAMG research and travel grants for students, and proposed to apply for a new IGCP project on new-generation mineral resources assessment technology. RO commented that the new research fields were in line with the direction of the IUGS new initiative RFG.

7.c. Strengthening links between IUGS and Affiliated Organizations through IUGS sessions and functions at major meetings (Roland OBERHAENSLI)

RO suggested IUGS increase its visibility through the following means: (1) The IUGS EC members and representatives of its bodies could mention and promote IUGS at major international events and meetings which were in line with IUGS strategies; (2) IUGS could apply for sessions and exhibitions under the IUGS logo at major international meetings, for instance, the IUGS session and exhibition at the 2013 GSA annual meeting in Denver.

8. International Geological Congress (IGC)

8.a. 34th IGC in 2012 (Brisbane) – Proceedings Report (Roland OBERHAENSLI)

RO indicated that the report was online.

8.b. 35th IGC in 2016 (Cape Town) (Danie BARNARDO)

Danie Barnardo (DB) presented a powerpoint on the 35th IGC, which is to take place on 27 August–4 September 2016 at the Cape Town International Conference Centre (CTICC). The Board, chaired by the President of the South African Chamber of Mines, has held 3 meetings in 2013 and the first circular is planned for end of March 2014. In his overview of the budget, which is based on 6000 delegates, he informed that income from exhibits, registration and abstract fees was expected to be about US\$ 5 million; expenditures about US\$ 7 million; and, sponsorship at about US\$ 3 million. About 30 Field trips and 11 one-day trips are envisioned and they will completely self funded. The theme for Scientific Programme would be “Geology in Society, the Economy and Science” the subthemes of which would be specific to South Africa and Africa. The 35th Legacy would be comprised of lecture tours, popular talks, various Geoheritage initiatives and a publication on the “Geoheritage of Africa” to be published.

RO opened discussion and began by underlying the importance of a strong Geohost Programme and reduced fees for student. He asked how the other southern African countries were being involved. AS expressed concern that the abstract fees were too high. HG suggested keeping some sessions open to industry (mining) as a way to promote sponsorship and that key people in Asia should be identified. HM suggested that African Union, whose chair is South African, should be approached. Participants also discussed marketing issues (meetings Russia, Asia, Episodes adverts).

DB thanked for the suggestions. To RO he responded that they were still seeking suitable sponsorship to support a solid Geohost programme, and affirmed that student fees had been considered. To AS’s suggestion that the abstract fees seemed to high, DB pointed out that they were the same as in Brisbane. DB informed the EC that the 35th IGC would address Africa through the African Geological Surveys (AGS), the Colloquium of African Geosciences (in Ethiopia in 2013) the GSAf.

8.c. 36th IGC International Geological Congress in 2020 (Delhi) (S.K. WADHAWAN)

SKW presented the report on the preparations for the 36th IGC to be held March 2-8, 2020 at the India Expo Centre & Mart in NCR and hosted by both the Ministry of Mines and the Ministry of Earth Sciences. The motto for the conference is “Geoscience for all not for profit”. Academies of Sciences from Bangladesh, Nepal, Pakistan, Sri Lanka have been engaged, and collaboration from the major geological organizations and Institutions from the subcontinent is expected.

RO called for questions.

YO expressed his appreciation for organization and asked if any attention will be made to unstable areas (ie. convergent margins). HK, the Chairman for the Japanese NC, asked how the this IGC planned to involve surrounding countries, reminding that in Brisbane, India delegates said would include “margin” countries. SKW confirmed that the entire Indian subcontinent and could certainly invite Japan to be involved in time.

YD congratulated the team but expressed concern about consulate matters (ie. visa applications). AS assured that the Ministry of External Affairs (MEA) has been sensitive to the issues of IGC, and that visa application process will become more streamlined.

SKW thanked for the questions and suggestions. RO closed the discussion.

8.d. International Geological Congress Committee (IGCC) (Danie BARNARDO)

DB presented highlights of the minutes of meeting. He outlined structure of the IGCC and described its role of providing advice for the upcoming Congresses. The 36th IGC had given a report on their preparations. He referred to discussions of a closer connection with IUGG and IGC. Finally, he reported that the IGCC concluded that Interim-IGC meeting in Vancouver in 2018 will not distract from the main Congress, as it is focused on the specific theme of resources.

9. UNESCO

9.a. Earth Sciences at UNESCO (Roland OBERHAENSLI)

RO reported that shortly after the new IUGS Executive was instated, Jean-Paul Cadet was replaced by Patrick McKeever as IGCP Secretary, both with whom IUGS has had good working relationships. Nevertheless, earth sciences face difficulty in UNESCO. Early last year a working group (including representatives from member countries) evaluated UNESCO programmes, downrating geosciences to “C”, which means that the office staff and financial allocation for geosciences would be reduced. UNESCO’s contribution to IGCP will be halved to US\$ 20-30,000. The IUGS President sent a letter to all National Committees informing of the situation. RO also sent a letter encouraging the Director General of UNESCO and its Secretariat to prioritize earth sciences. The Executive Board wants to keep Geoparks, but has suggested that it be put under the IGCP umbrella.

The IUGS Executive Committee’s view was that Earth Sciences should remain an independent science in the UNESCO system with links to other sciences (oceanography, environmental, etc.), and that IUGS must do everything within its means to support earth sciences within the UNESCO system.

9.b. IUGS-UNESCO International Geoscience Programme (IGCP) (Yidirim DILEK)

YD, who chaired the ARC review of IGCP in January 2013, reiterated the committee’s conclusion that IUGS should work to ensure earth sciences programmes did not become extinct within UNESCO. YD described IGCP is a unique platform for the earth sciences community. IGCP demonstrated a bottom up mode to initiate projects: it facilitated knowledge transfer via workshops, field trips and meetings; it developed networks in the earth science community; and, it fostered capacity building. However, funds were diminishing to IGCP; therefore, it needed reform. Some reform fronts had been suggested by ARC, including establishing a interdisciplinary and multidisciplinary approach; streamlining the annual report; establishing metric assessments of outcomes; and reduction to a three-year grant periods with performance and delivery evaluation. Additionally, the ARC had suggested project legacies, effective dissemination of project results, inter-project symbiotic collaboration, and call for proposals on “hot-topics”. Links with Task Groups and Commissions of IUGS should be enhanced, as well as developing a new logo to reflect a new direction.

VD requested that EC consider how the Global Geoparks Network (GGN) should fit in within IGCP. A Strategic Task Group should be established to redefine the new mission of IGCP

and to develop a feasible and well-constrained programme. IUGS should take on more ownership of IGCP. Critically needed was funding-raising programme to support IGCP externally in the short and long term.

A general discussion ensued, which included topics of deliverables/results (funding agencies would ask this), vision, the overlapping themes of ICSU's earth science programme and IGCP themes, the need for more interdisciplinary research, and the importance of basic research.

RO suspended discussion, until the closed section of the meeting.

9.c. Geoparks and Geoheritage (Roland OBERHAENSLI)

RO reported on the UNESCO Global Geoparks Initiative and IUGS' involvement. IUGS' task would be to continue to provide expertise at every level. RO reported that many Geoparks were not aware that reviews geologists conducted reviews of the parks. Regardless, IUGS would continue with this service – and hopefully eventually gain more visibility.

9.c.1. Global Geopark Network (GGN) and related issues (Roland OBERHAENSLI)

RO reported on the UNESCO Global Geoparks Initiative and IUGS' involvement. IUGS' task would be to continue to provide expertise at every level. RO reported that many Geoparks were not aware that reviews were being conducted by geologists, however IUGS will continue with this service – and hopefully eventually gain visibility through this.

9.d. IUGS-UNESCO Programme on Geological Application on Remote Sensing (GARS)

9.d.1. Future of GARS (Roland OBERHAENSLI)

RO reminded the Executive that it had been decided that the unallocated GARS money for 2012 be forwarded to UNESCO; however, it was discovered that BGS was the fund administrator. Rather than return the funds to IUGS accounts it was decided that it would be allocated to a workshop organized by Africa Array.

9.e. Group on Earth Observations (GEO) – GEOSS (Marko KOMAC)

During the Geneva Ministerial Summit held January 15-17, the Group on Earth Observations (GEO) received approval to continue for a second decade. They also adopted a work plan for 2 years. IUGS should see itself involved directly in the Infrastructure via OneGeology

10. IUGS' Committees

10.a. Nominating Committee. First call for nominations for next EC to be made early 2015 (Roland OBERHAENSLI)

Jacques Charvet was ratified as Chairman by Council. This group will begin its work soon.

10.b. New Activities Strategic Implementation Committee (NASIC)

10.b.1. Report on proposed new IUGS activity – Resourcing Future Generations (Edmund NICKLESS)

Edmund Nickless (EN) presented his powerpoint on Resourcing Future Generations, a concept introduced at the 66th IUGS Executive Committee. RFG aimed to examine the problem of Society's reliance upon discovery and extraction of resources, which will only increase as the earth's population grows and expectation for higher living standards are

pursued world-wide. EN explained that improved exploration data management, mapping, satellite technology, will be required as well as schemes for Geo-governance to resolve conflicts over resources.

EN outlined the work of the Global Geoscience Initiative which had its origins in the International Year of Planet Earth which lacked a science programme. During townhall sessions, Internationally-recognised geoscience leaders discussed topics such as Deltas (as it related to agriculture); Natural hazards and the low impact mineral resource extraction; Water resources and Ecology.

The task of the New Activities Strategic Implementation Committee (NASIC) was to assess the feasibility of RFG and provide its framework. The Committee identified four possible research themes i) comprehensive evaluation and quantification of 21st century supply and demand; ii) improved understanding of subsurface; iii) potential new resources; and iv) capacity building. Consultations with industry were initiated, which revealed that they would like a clearer focus, longer time frame, and minimal replication of work of already being done. The concept had been supported by at least one of the three industry consultations. EN points out there is opportunity of Chinese funding and RGF concept will be introduced to China Mining Meeting, October 2014.

EN reported that the committee foresaw that IUGS would play catalytic and coordinating role in RFG, internally involving its membership, Affiliated Organizations, Commissions and Task Groups. Externally RFG would involve ICSU, Governments/Quasi-Governmental Bodies, Geosurveys, UNESCO, Industry and Academia. Potential collaborative bodies might include: Future Earth, OneGeology, Giraf, GSAf, IM4DC, AMV, AEGOS, AAWG, Africa Array, CCOP, EIP, ERA-MIN

EN pointed out that IUGS Strategy Agendum 4f supported an activity like RFG which would serve to increasing the visibility of the Geoscience; foster collaboration between developed and developing countries; encourage interdisciplinary involvement and improve IUGS' presence in ICSU activities.

RO thanked RN for the presentation and called for discussions.

10.c. Discussion of Resourcing Future Generations (led by Roland OBERHAENSLI)

YO thanked EN for the presentation and stated he agreed with the ideas and project aims.

DS turned to the question of how this initiative was to be carried out. To further support this initiative, a Memo of Understanding between IUGS and Ministry must be signed. A good place to launch Resourcing the Future would be China Mining, where last year over 8000 people attended. RFG needs a long term working plan, and DS suggested that there was a demand for refining exploration technology. IUGS bodies concerned with resources (SEG, SGA, IAGOD, IAMG) could be involved to push this initiative. However, NASIC and IUGS must find more financial support. To this RO thanked DS and colleagues for funds for the launch of RFG. The IUGS network and industrial network (oil companies) should both be approached for additional support.

HM agreed that RFG was needed; however, there have been many other initiatives in the name of Africa in the past, and that the returns are one-sided. She wonders what kind of support the African Geological Surveys are offering. In addition, the health impact natural incurring minerals in Africa should be highlighted.

EN agreed that openness of results are necessary. To RO he responded that it was possible that industry would not be the only funding source, but ICSU has limited funds. RFG involvement in ICSU's Future Earth programme was crucial.

AO expressed her support of the initiative and offered help via Tectask. Industry could get a lot of return from this work and pointed to AUSAID as a possible funding source. PB reported that the Canadian NC is pleased with this topic. Canada through SEEDA (World Bank) is compiling geoscience data and access. Some groups have problems of access or getting data.

To YD's question of how industry would use the results of this work, EN responded that IUGS must commit financially first, and then expect matching from industry.

AS expressed his concern regarding interaction with industry and requested clarification as to what specific aspect IUGS wanted to focus on, and what its deliverables would be. EN informed that he has had conversations at senior levels of industry, but first endorsement from IUGS is required to proceed. The Executive Committee should identify focus areas.

In response to the focus of RFG, RO suggested the IUGS roles would be to identify what is available. Scientists not industry can do this.

BM reports that RFG has been discussed with GSAf and AGS. I think the themes covered here are quite adequate. HM suggested promoting the event at south Africa Mining Summit – in Ghana.

SW pointed out that Geological Surveys are concerned about supply and demand. India in particular needed identify access to certain minerals, if the focus would be on these minerals, cooperation would be more likely.

QC (IAMG) supported the idea of "Resourcing Future Generations", from the point of a researcher, educator and IUGS Affiliated Organization. IUGS could provide rules and guidelines to this area of Science. It could possibly identify what is important in the nearest future.

RO suspended discussion on the item until the closed session.

11. International Council for Science (ICSU) (NOTE: This will be complemented by Skype discussion with Steven Wilson, Executive Director, ICSU during Day 3 closed meeting)

11.a. Relations with ICSU, Other ICSU Unions (GeoUnions) (Roland OBERHAENSLI)

RO pointed to the fact that it may take one executive term to establish contacts. IUGS benefits its GeoUnion liaisons.

HG (IUGG President) advocated more letters to ICSU executive that emphasized the importance of geosciences, particularly in the area of sustainability. If GeoUnions continue to work together they could grow together to achieve common goals, rather simply wait for directions from ICSU.

11.b. GeoUnions Meeting, late April 2013, including outlines of (i) International Research on Disaster Reduction and (ii) Future Earth

Nothing discussed.

11.c. Potential Joint GeoUnions Submission for ICSU grant (Roland OBERHAENSLI)

RO said that pending the acceptance of RFG, IUGS would draft proposal that could be sent around to the GeoUnions and submitted jointly by the Auckland meeting. A joint proposal would have a better chance than a single proposal.

11.d. ICSU Regional Offices (Marko KOMAC)

MK said that ICSU had established 3 regional offices: Africa (Pretoria 2005); Asia-P (2006); Latin America (Rio 2007 Mexico 2012) to involve regional scientists into ICSU activities. There are priorities in each region that may match the needs of IUGS. Sustainable energy, Disasters, and Climate Change are themes represented.

HM reported on the ICSU Regional Office of Africa, where she had a successful meeting the director, opening the door for cooperation. After a visit from the regional director she was informed of a meeting held University of Johannesburg where she could present on "Resourcing the Future".

11.e. 31st General Assembly, Auckland, New Zealand, 30 August - 3 September 2014 (Roland OBERHAENSLI)

RO reported that the GeoUnions will assemble before the Auckland meeting to prepare a stand on how Future Earth can include earth sciences. They had a discussion in Italy – this could be used.

12. Publications and Promotion

12.a. Publications Committee (PC) Meetings (Brian MARKER)

Briefly, BM provide the Terms of reference of the PC including: i) a review publication activities; ii) to oversee IUGS publication agreements and other iii) to review proposed publications not under existing agreements iv) to assist with alternative publication means promote publications from developing countries and v) to assist editing IUGS material. In 2013 the BM met and maintained regular contact the Geological Society Publishing House (GSPH). Although 6 new titles had been accepted since January 2013, GSPH expressed the need for continuing flow of new submissions. BM suggested that reminders sent to all leaders of IUGS activities.

Proposed priorities for 2014 and beyond are:

- to appoint a new Publications Committee member to replace Susana Damborenea (Argentina)
- make more use of, and make arrangements for turn-over in the membership of, the Editorial Board;
- widen the pool of potential reviewers of papers submitted to Episodes;
- secure thematic issues of Episodes for 2014 and 2015 and make timetable arrangements for the African Geology special issue for 2016;
- Secure keynote and review papers for Episodes;
- finalise a paper on publications policy;
- build up a photo library for inclusion in publicity materials, website and social media by 2016; and

- carry out further examination of social media as a vehicle for dissemination.

HM suggested translation of material to other languages.

12.b. Episodes (including proposals for electronic publication and for incentives to encourage submission of keynote and review papers) (FAREEDUDDIN, Brian MARKER)

Fareeduddin reported publishing on time, online submission of the manuscripts and the assignment of the DOI number were three issues that were of major concern in 2013. Maintaining the quality; attracting the mineral industry to contribute articles; English language editing (Prof Brian Marker has been doing most of the work); ineffective use of the Editorial Board (Slow response/Non-response of the reviewers) were also topics that needed attention.

Fareeduddin suggested that before the implementation of online-only version all options and consequences should be examined. Outsourcing the work to the third party on Annual Payment basis appeared to be most economical. For example, via the Editorial Manager - M/s Aries System - the cost would be ~1200-1400 USD annually. Should Episodes go over to online journal format, IUGS Membership, Affiliated Organizations and chairs of IUGS' scientific bodies could now be informed. If approved PDF copy of the Vol. 37, due in March, could be made available through their e-mails. Should the journal go free online, there would be financial implications. Although the savings per issue would be US\$ 3000 (printing and postage) there would loss of subscription income of about US\$ 6,000-6750. FF suggested that it might be better to have a gradual change to online-only, for example, online to its members etc initially, and then online to paying subscribers at a later date. Once the journal is on line, the will deal with DOI issues.

YD commented that editorial board was not functioning well, and suggested replacing those who did not work. There was also the problem of giving Episodes a niche, so that there is a steady state of good quality papers.

AS pointed that open Access must be possible even without publishing house. He added that maintaining the board and a high standard was most important, so new trends should be identified to foster and excitement for geoscience.

RO disagreed. Episodes was a club journal, and focused primarily on the news of IUGS. He pointed to Elements journal which attracts a good amount of advertisement. Episodes should be kept as a journal for the society. MaxPlank system could be used for Open Access journal housing.

EN urged IUGS to establish a communications strategy, and identify where Episodes sits, the content of E-bulletin, the Website and the Annual report. This is something that should be discussed within the publication committee.

RO closed discussions.

12.c. E-Bulletin (Hassina MOURI)

HM reported that she has assembled contributions from IGS Commissions, Task Groups, Programmes, IGCP and others to construct the bulletin.

12.d. Website (Peter BOBROWSKY)

PB presented a Google Analytics report of the iugs.org. An increase in traffic appeared to show that the new design was successful. Dong Shuwen suggested that more popular science be included on the IUGS website.

13. IUGS Visibility

13.a. Annual Report 2012 (Anne LIINAMAA-DEHLS)

ALD said that the report was completed late. RO requested that the IUGS Annual Report be completed earlier.

13.b. New Promotional Products (Brian MARKER)

BM reported that the products must to be reviewed. RO requested items that could be used in formal exchanges.

13.c. Report on IUGS activities at GSA Meeting (Roland OBERHAENSLI)

RO report that a informal bureau meeting took place. An IUGS Booth was arranged by the Secretariat. The Bureau also attended the Stratigraphy Commission's Turonian event and organized the Pardee Lecture "Resourcing Future Generations"

13.d. Outcomes of IUGS sponsored workshop, Sendai, September 2013 and potential future IUGS activities in geohazards (Yujiro OGAWA)

YO presented a powerpoint. IUGS had supported the Sendai Workshop, Oct. 19-20, 2014: "The 2nd G-EVER International Symposium". 70 people attended from 10 countries and regions. The workshop comprised 34 talks and 26 posters for two days with one-day field trip of Tohoku tsunami disastrous areas. The Sendai Agreement was approved and an Episodes Special Issue was in process. The IUGG Secretary General proposed an integrated research group and for 2014 two sessions have been proposed for GSA Annual Meeting, Vancouver, Oct. 2014.

13.e. Exposure through scoping Resourcing Future Generations (Roland OBERHAENSLI)

No discussion

14. First Inter-IGC Conference (Vancouver 2018) and potential host for 2015 EC meeting (Peter BOBROWSKY)

14.a. First Inter-IGC Conference (Vancouver 2018)

PB referred to the letter from Dr. Stephen Johnson, International Director of Canadian Federation of Earth Sciences (CFES), to Dr. Ian Lambert, IUGS Secretary-General, concerning progress made towards organizing the 2018 Inter-IGC Conference with the theme of "Resourcing Future Generations", including: (1) The Council of CFES endorsed the concept; (2) Natural Resources Canada will support the conference; (3) The core body of people involved in Canada's IGC 2020 has reconstituted to initiate work on the conference proposal; (4) National Research Council Canada – Conference Services (NRC) and the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) are to secure a management group for the conference; (5) Several national and international geoscience organizations have expressed an interest to collaborate with the conference; (6) The Vancouver Convention Centre has temporarily reserved two weeks, June 16-22 and August 19-25, for the conference; A final decision is awaited on the exact dates pending the nomination of a local conference chair; (7) Tourism Vancouver will cover the lodging and meals for the delegates attending the 2015 IUGS Annual Executive Committee Meeting; (8) The Mineral Exploration Roundup in Vancouver 2015 will immediately follow the proposed next IUGS EC

meeting in Vancouver on January 26-29, 2015. The Chair of the 2015 Roundup has agreed verbally to give the IUGS President or Secretary-General a short period of time to address the Roundup audience in order to introduce and promote the inter-IGC conference in 2018; (9) The Organizing Committee has drafted a preliminary budget for the IUGS conference based on a projected attendance of around 4,000 delegates.

14.b. Vancouver as potential host for 2015 EC meeting

PB invited the IUGS Executive Committee to Vancouver. Date January 26-29, 2015 as dates for the 68th IUGS Executive Meeting.

RO commented that the proposal of the inter-IGC meeting was made in conjunction with the initiative "Resourcing Future Generations" and thanked Canada for the generous offer to host the next EC meeting.

15. Any Other Business

None.

Attachment 1: ACTIONS (and official Motions) of the 67th Executive Meeting of the International Union of Geological Sciences, in Goa, India

Action items Day 1

- 1) All EC members to motivate more colleagues to have their scientific sessions at meetings under IUGS logo, to ensure visibility.
- 2) Treasurer to examine (via reports) what portion IUGS money distributed to commissions, task groups and initiatives is diverted to overhead.
- 3) Wesley Hill to draft a finance statement template for groups receiving IUGS allocation.
- 4) President to answer to UNESCO letter proposing umbrella for IGCP and UGGI DONE
- 5) Sampat Tandon rapporteur for Geochemical Baselines Task Group to make connection with GEO/GEOSS (Stewart Marsh).
- 6) President to write a letter to GARS Chair to thank for the work over the years any remaining funds should be transferred to IUGS.
- 7) President to approach Switzerland to increase its IUGS category of membership from 4 to 5.
- 8) President to inform leaders of IAPG and IAEGTH of the EC's positive reception to integrating the two ethic groups under Task Group on Global Geoscience Professionalism.

Action items Day 2

- 9) President and Vice President to continue IUGS efforts, strengthening earth sciences at UNESCO (IGCP/UGGI).
- 10) President to recommend to the 35th IGC to immediately assign the head of science committee, and the head of the sponsorship committee to deliver budget options; to reassess conference fee and abstract fee.
- 11) President to suggest to the 35th IGC to establish and maintain a liaison with African based IUGS Councilor.
- 12) President to inform NASIC to continue its work, evaluating sponsoring contacts, delivering feasibility study on projects.
- 13) SG/P to prepare ICSU proposal RFG including other GEOUNIONS, final draft to be presented before Auckland
- 14) Publications Committee to nominate a new member for and forward their suggestion to the EC by 20 February.
- 15) Publications Committee to consider options on additional promotion products and gift items (medals, lapel pins, etc.),
- 16) Publications Committee to propose new individuals to sit on EPISODES Editorial Board.

- 17) Publications Committee to consider a communication strategy that includes IUGS Bulletin, Annual Report, Brochures, Website, IGC, Episodes, Social Media.
- 18) Secretariat to assist PC in coordinating possible Skype conferences.
- 19) Publications Committee to be informed that Hassina Mouri has been assigned several new tasks (IGC, ICSU Africa, Inactive African countries), which means she can no longer continue compilation of the IUGS Bulletin.
- 20) EPISODES Editor to evaluate advertisement in EPISODES (ELEMENTS template)
- 21) Secretariat/Treasurer to remind obligation of all allocation recipients of their obligation to contribute to e-bulletin and EPISODES.
- 22) Secretariat to remind nomination committee to start its search for 2016, as well as provide the latest contacts.
- 23) President to thank Canada for its invitation to host the Next EC meeting
- 24) President to thank Indian NC and the NCOAR for hosting the meeting in GOA
- 25) President to thank Peter Bobrowsky for his additional term advising EC in place of past president.

CLOSED MEETING

- 26) KEY MOTION: President and Secretary-General to continue with the research initiative Resourcing Future Generations and encourage NASIC to proceed with searching for sponsorship for the initiative, define themes in more detail, provide guides for proposals and deliver tangible outputs."
- 27) KEY MOTION: IUGS to put in place a strategic task group to evaluate the future phase of IGCP, to define its mission and vision in this new phase, and to formulate feasible and realistic plans to undertake fund-raising activities in support IGCP and projects. This group should be composed of an EC member, UNESCO representative and earth scientists outside UNESCO and IUGS-EC. The EC member shall Chair the STG. This task group should come up with recommendations and a report within 8 months (GSA meeting in Vancouver). A preliminary report will be provided by the Auckland meeting. Max 5 people.
- 28) Yilidrim Dilek, who accepted to ask the President to call for suggestions for experts to sit on the IGCP "Future Phase" Task Group.