ANNUAL REPORT EXECUTIVE SUMMARY



IN SUPPORT OF THE UNITED NATIONS
PROGRAMME ON SPACE APPLICATIONS

SGAC 2011





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Cover Image: This view of the rising Earth greeted the Apollo 8 astronauts as they came from behind the Moon after the fourth nearside orbit. The photo is displayed here in its original orientation, though it is more commonly viewed with the lunar surface at the bottom of the photo. It serves to remind us that we are all on the same journey, around the Sun. Credit: NASA.

Executive Council Members

Chairpersons		
Michael Brett (Australia)	Chair	
Catherine Doldirina (Georgia)	Co-Chair	
Exe	ecutive Office	
Ariane Cornell (USA/France)	Executive Director	
Andrea Jaime Ablalat (Spain)	Deputy Executive Director	
Elizabeth Bozek (USA)	Treasurer	
Suresh Bhattarai (Nepal)	Executive Co-Secretary	
Romain Loubeyre (France)	Executive Co-Secretary	
Oana Sandu (Romania)	Communications and Public Relations Lead	
Emmanuelle David (France)	Project Co-Coordinator	
Alanna Krolikowski (Canada)	Project Co-Coordinator	
Claudia Raposo Correia (Portugal)	Membership Manager	

Regional Coordinators

Prospery Simpemba (Zambia) Africa Hubert Foy Kum (Cameroon) Africa Yohan Ferreira (Sri Lanka) Asia Pacific Joyeeta Chatterjee (India) Asia Pacific Nunzia Paradiso (Italy) Europe Damian Maria Bielicki (Poland) Europe Mahsa Taheran (Iran) Middle East Middle East Hasan Aziz Kayihan (Turkey)

Israel Ojeda Coronado (Mexico)North, Central America and the CaribbeanStephanie Wan (USA)North, Central America and the Caribbean

Nicole Jordan (Colombia) South America
Ana Alexandra Pérez (Venezuela) South America



Letter from the Co-Chairs

Dear members, friends and supporters,

Throughout 2011, the Space Generation Advisory Council has continued to prosper and make great strides in representing the interests of students and young professionals around the world. As Chairs of the organisation, We continue to be inspired by the achievements of our members as they forge their own paths in the space community.

SGAC had an ambitious work plan for 2011, and we have met most of our objectives through the gracious work of our volunteer office bearers. One of the most remarkable attributes of SGAC is the ability of such a diverse group of people, from all over the world, to consistently work together in running the organisation and producing high-quality output. This year's Space Generation Congress (SGC) in Cape Town, South Africa in particular stands out as an example of the impact SGAC can have. The Congress played host to a record number of delegates, delivered a record number of scholarships, and enabled students and young professionals from all over the world to make their mark.

Thank you to everyone who has supported the organisation throughout the year in their own way. Our thanks in particular go to Ariane Cornell and the Executive Office for their tireless work running the day-to-day operations of SGAC – as a volunteer youth organisation, we are grateful to have the capacity to employ full-time staff. Thanks to our financial sponsors, who help provide the means for SGAC to go about its work. Our utmost appreciation also goes to our Advisory Board for their time and continued support and assistance throughout the year.

SGAC will soon be undergoing a number of exciting changes that will allow the organisation to achieve even more. Our long-serving Executive Director, Ariane Cornell, will be leaving us to take on the challenges in the next stage of her life. Ariane has been a driving force behind our successes over the past few years, and we are both sorry to see her go and excited for her bright future ahead. Thankfully, we have an excellent replacement in training with Andrea Jaime Albalat, who is currently learning the role and will soon transition to be the full-time Executive Director in Vienna. Andrea is a pleasure to work with, and we are sure to do well with her at the helm. Along with these staff changes, SGAC is also refreshing our brand to better reflect the organisation. We have embarked on new efforts to better communicate with our members, and we plan to host a new event called the Space Generation Fusion Forum alongside the National Space Symposium in April 2012. It is likely that SGAC will look a little different a year from now, but it will be well-placed to take advantage of future opportunities and have the same drive and energy that have made it such a great organisation to be a part of.

Thank you once again for your continued support, we are looking forward to working with you all in 2012 to help turn raw energy and passion for space into dynamic careers in the space community.

We commend this report to you.

Michael Brett

Chair

Catherine Doldirina

Co-Chair

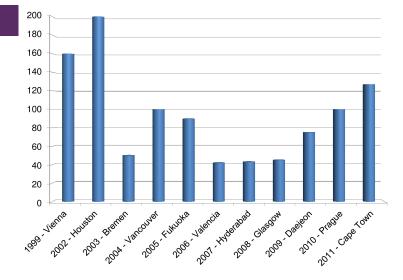


Statistics of SGAC Growth

1 space generation congress delegates

The 10th Anniversary of SGC was an excellent opportunity to demonstrate how both the Congress and SGAC have grown since the organisation's creation in 1999. The number of delegates participating in the Congress has tripled in just three years.

Figure 1.



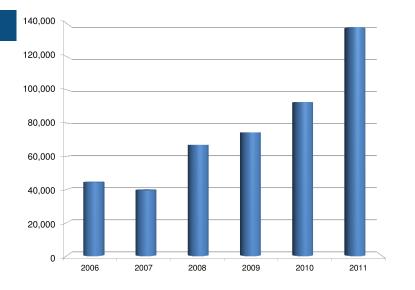
Space Generation Congress Delegates 1999 - 2011



2 sgac annual revenue

As the quality of SGC and SGAC programming has improved, so has the organisation's ability to attract generous supporters. The revenue has steadily been growing over the past four years.

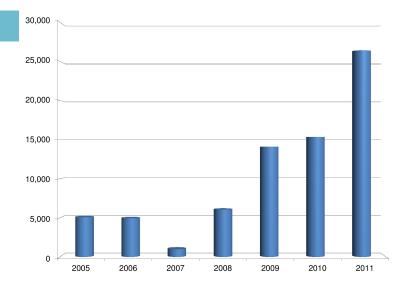




SGAC Annual Revenue in € 2006 - 2011

Another important fact that SGAC is proud to show is the growth in the value of scholarships given. In 2011, an additional 12,000 € were allocated towards scholarships, setting an SGAC record at approximately 27,000 €.

Figure 3



Value of SGC Scholarships Supported in € 2005 - 2011



SGAC Output at a Glance

1 scholarships and awards (35)

- Ade Abiodun African Space Scholarship
- Australian Futures Award (3)
- Barcelona Zero-G Competition
- German Aerospace Center (DLR) Standout Student Scholarship (3)
- International Association for the Advancement of Space Safety (IAASS)
 Conference (3)
- Move an Asteroid Competition
- Nigerian National Space Research and Development Agency (NASRDA)
 Award (2)
- OHB Scholarship Award
- Peter Diamandis Scholarship
- Society of Satellite Professionals International: Satellite Futures (3)
- Space Generation Advisory Council (SGAC) Young Leader Awards (13)
- UN/International Astronautical Federation (UN/IAF) Workshop Scholarships (3)

2 conferences and workshops supported (3)

- Space Generation Congress (SGC), South Africa
- The Future of Planetary Defence, Romania
- · Workshop on Use and Application of the Satellite Tool Kit (STK) Software, Nigeria



3 papers and publications (8)

- SGC reports (5 session reports, plus the congress report and its executive summary)
- Paper titled "Space Safety and Sustainability The Youth Debate" on behalf of the SGAC Space Safety and Sustainability (SSS) working group
- Youth for GNSS (YGNSS), a public outreach guide to GNSS (Global Navigation Satellite System) and the Youth
- Paper titled "Global Navigation Satellite System: GNSS Interference The debate rages on," by Stephanie Wan (USA), in Geospatial World Magazine on behalf of YGNSS

4 conferences with official sgac representation and/or presentation (18)

- African Leadership Conference (ALC), Kenya
- · Asia-Pacific Regional Space Agency Forum, Singapore
- Compass Summit, USA
- International Astronautical Federation's (IAF) 60th Anniversary and Spring meetings, France
- International Astronautical Congress (IAC), South Africa
- International Committee on GNSS (ICG), Japan
- International Space University (ISU) Symposium, France
- International Symposium for Personal & Commercial Spaceflight (ISPCS),
 USA
- ISU Southern Hemisphere Summer Space Programme, Australia
- Massachusetts Institute of Technology (MIT) Symposium, USA
- National Aeronautics and Space Administration (NASA) Project
 Management Challenge Conference, USA
- National Space Symposium (NSS), USA
- Planetary Defence Conference, Romania
- UN/IAF Workshop, South Africa



- United Nations Committee on the Peaceful Uses of Outer Space (UN COPUOS, Austria
- Legal Subcommittee of UN COPUOS, Austria
- Scientific and Technical (S&T) Subcommittee of UN COPUOS, Austria
- United Nations International Meeting on the Application of Global Navigation Satellite Systems (GNSS), Austria

5 formalised partnerships (8)

- · Analytical Graphics, Incorporated (AGI) Educational Alliance Program
- German Aerospace Centre (DLR)
- Institute of Air and Space Law (IASL), McGill University, Canada
- ISU
- Society of Satellite Professionals International (SSPI)
- Space Education and Awareness Working Group at the Asia-Pacific Regional Space Agency Forum
- Women in Aerospace Europe (WIA-E)
- Yuri's Night



SGAC Activity Highlights

1 sgac-wide highlights

- SGAC welcomed a new Co-Chair, Catherine Doldirina (Georgia)
- SGAC welcomed for the first time its new Deputy Executive Director at Vienna Office, Andrea Jaime Albalat (Spain)
- SGAC had two interns during 2011, Leandro Ricardo (Angola) and Sonja Russel (Australia)
- SGAC added new members to its Advisory Board consisting of influential members of the international space community to provide strategic guidance. The new members of the Advisory Board include:
 - o Agnieszka Lukaszczyk, outgoing SGAC Chair and European Programme Manager for the Secure World Foundation
 - o Tanja Masson-Zwaan, Assistant Professor and Deputy Director of the International Institute of Air and Space Law at Leiden University and President of the International Institute of Space Law
 - o Nicolas Peter, Exploration Strategy Officer in the Director General's Cabinet of the European Space Agency
 - o Dumitru Prunariu, Chairman of the UN COPUOS and former Romanian cosmonaut
- SGAC added new members to its Honorary Board. SGAC's Honorary Board new members are people who have already been strong, consistent supporters of SGAC and its goals:
 - o Ambassador Ciro Arevalo, Former Chairman of UN COPUOS
 - Yolanda Berenguer, Space Education Programme Coordinator for the United Nations Educational, Scientific and Cultural Organization (UNESCO)
 - o Chris De Cooker, former Head of International Relations for the European Space Agency (ESA)
 - o Ben Baseley-Walker, current programme Lead of the Emerging Security Threats Programme at the United Nations Institute for Disarmament Research (UNIDIR) & former SGAC Chair
 - o Jim Zimmerman, President of International Space Services, Inc. and former IAF President



- SGAC organised its fourth annual Move an Asteroid Competition with the support of A.C. Charania; the winner – Alison Gibbings (United Kingdom) – wrote a paper titled, "A Smart Cloud Approach to Asteroid Deflection"; she also was invited to American National Public Radio (NPR) to discuss her paper
- In 2011, SGAC attracted a record 276 applications for the Space Generation Congress, a 20% increase from last year; this year's SGC's 130 delegate slots were sold out and attracted delegates from 42 different countries
- SGAC supported a record breaking 32 scholarships to delegates from 20 countries to attend SGC 2011 in Cape Town; 2011's scholarship spending increased by approximately 80% from 2010
- SGAC recorded and published on its YouTube channel, for the first time, all SGC speeches to bring the Congress closer to those who were not able to attend
- SGAC announced the first Barcelona Zero-G Challenge, a new competition where the winners are awarded with an aerobatic zero-gravity flight to test their experiments on board
- YGNSS published a valuable public outreach guide for GNSS
- The new SSS project group was created, and published multiple papers at different conferences
- Near-Earth Object (NEO) SGAC Working Group completed a successful Future of Planetary Defense event at the Planetary Defence Conference in Romania
- SGAC achieved its highest participation at the IAC 2011 in Cape Town, South Africa. SGAC's members presented different technical papers, participated in panels, and organised very successful outreach events, including a Meet & Greet with Pete Worden, the Director of NASA Ames Research Centre, at the main IAC Exhibition Hall



2 executive office highlights

- SGAC Executive Director, Ariane Cornell (USA/France), presented SGAC's general statement in which she covered SGAC's developments since the last meeting of S&T Subcommittee in February 2010
- SGAC delivered three presentations to the 48th session of the S&T Subcommittee of UN COPUOS
- SGAC contributed to the 54th Session of the UN COPUOS in Vienna. Executive Director, Ariane Cornell (USA/France), gave SGAC's official statement, that explained broadly the activities that SGAC has engaged in during the past year
- SGAC Chair Agnieszka Lukaszczyk (Poland/USA) represented young professionals and university students at the NASA Project Management Challenge Conference in Long Beach, California, USA
- SGAC Chair Agnieszka Lukaszczyk (Poland/USA) was invited to give a guest lecture on space policy at the Leiden Master of Law in Advanced Studies in Air and Space Law Programme in the Netherlands
- Andrea Jaime Albalat (Spain), SGAC Deputy Executive Director, was on a panel on space careers from a young perspective organised by HE Space Operations at IAC Forum, in Cape Town
- Ariane Cornell, Executive Director, and Clay Mowry, Advisory Board member, participated on a panel on "Why Space Matters" at the Compass Summit, USA

3 africa region highlights

- Two new NPoCs, Hosham Galal (Sudan) and Jonathan Nyago (Uganda), were approved, increasing SGAC representation to 11 of 55 African countries
- SGC and IAC were held in Cape Town, which marks the first time either event has been held on African soil
- NASRDA offered two scholarships to two young Nigerians to participate in SGC



- Ade Abeodiun African Space Scholarship supported the participation of a special winner, Etim Offiong (NPoC for Nigeria) to attend the SLC, SGC and IAC
- Africa RC Foy Kum Hubert (Cameroon) highlighted the role of SGAC in efforts to develop the space sector within the African community during an interview with Deutsche Welle, an international German radio program on space activities in Francophone Africa
- A series of educational and outreach workshops for students and their teachers were organised in many countries in the region, including the Kenyan Star Party Dinner
- SGAC, together with the African Regional Centre for Space Science and Technology Education in English (ARCSTE-E), held a workshop on the use and application of the Satellite Tool Kit (STK) software in Nigeria
- CJ Nwosa (Nigeria) and Minoo Rathnasabapathy (South Africa) became the co-leads of the new SSS working group
- Misheck Mutuzana, NPoC Zambia, participated in the Space Outreach Program at Mufullira College Education (MUCE), in Zambia

4 asia pacific region highlights

- Michael Brett (Australia) succeeded Agnieszka Lukaszczyk (Poland/USA) as the new Chair of the Space Generation Advisory Council
- SGAC elected Catherine Doldirina (Georgia) as the new Co-Chair of the Space Generation Advisory Council
- Asia Pacific RC, Joyeeta Chatterjee (India) was awarded a full scholarship by the International Space University (ISU) and a travel grant by the Secure World Foundation to attend the Southern Hemisphere Summer Space Programme at the University of South Australia, Adelaide
- Ravit Sachasiri (NPoC for Thailand) was awarded a 2011 IAF Youth Grant to attend the 2011 SGC, UN/IAF Workshop and the IAC in Cape Town, South Africa
- Mohammed Shafiq (Pakistan), So Young Chung (South Korea) and Thu Vu Trong (NPoC for Vietnam) were awarded scholarships to attend the UN/IAF Workshop in Cape Town, South Africa



- Ten of the 32 Space Generation Congress 2011 scholarship winners were from seven countries in the Asia Pacific region
- Chariratha Vyas (India), Ali Butt (Pakistan) and Daichi Nakamura (Japan) were appointed as new NPoCs for their countries

5 europe region highlights

- Andrea Jaime Albalat (Spain) was hired as the new Deputy Executive Director
- Nunzia Paradiso (Italy) was elected as the new Regional Coordinator for Europe
- New NPoCs were appointed in Austria, Belgium, Bulgaria, Italy, Lithuania, Netherlands, Norway, Russia, Ukraine and Ireland
- SGAC in Europe widely celebrated the 50th Anniversary of the First Human Spaceflight. Damian Maria Bielicki (Poland), the European RC, visited Russia to strengthen relations with several Russian aerospace institutions
- Veronika Simova (Czech Republic) was selected by the World Space Week Association to participate in zero-gravity flight in Las Vegas in October 2011
- SGAC representatives widely participated in the Planetary Defence Conference, organised by the NEO Group held in May by the International Academy of Astronautics in Bucharest, Romania
- Raycho Raychev, NPoC of Bulgaria, continued his activity during 2011 as a founder/organiser of the Space Challenges Programme, in Bulgaria
- Dmytro Faizullin, NPoC for Ukraine, presented SGAC at the 3rd
 International Conference "Space Technologies: Present and Future" in Ukraine

5 middle eastern region highlights

 Behnoosh Meskoob (Iran), Nouf Al-Jalaud (Saudia Arabia) and Remi Kahwaji (Lebanon) were appointed NPoCs for their respective countries, some of those for the first time



- Cem Ozan Asma (Turkey) finished his duty as the Project Coordinator. He
 is also selected as the Member of the Month for August by the Executive
 Council
- Mahsa Taheran (Iran), RC for the Middle East, received the WIA-E 2011
 Award
- Hasan Aziz Kayıhan (Turkey), RC of the Middle East, received the SGAC 2011 Young Leader Award
- Jamejam Newspaper in Iran accepted an article on SGAC and promoted the upcoming SGC 2012

5 north, central america and the caribbean region highlights

- The North Central America and Caribbean (NCAC) SGAC members were well represented at the ISU Space Studies Program in Graz, Austria, including Canada NPoC, Laura Drudi
- NCAC SGAC members, including RC Stephanie Wan, NPoC of Canada Laura Drudi, NPoC of the USA, Paul Gunthrie, and NPoC of Jamaica, Marc Cornwall participated in SGC 2011 in Cape Town, South Africa
- NCAC members continued to attend various space conferences and meetings around the world, such as the International Lunar Exploration Working Meeting
- SGAC held collaborative events with the Children's Museum of Guatemala and wrote letters to the Mexican Senate in support of the creation of the Mexican Space Agency
- Jorge Vega, NPoC for Mexico, participated in the 4th Consultancy Forum of the Mexican Space Agency
- Ariane Cornell (USA), Jeff Boulware (Executive Secretary), Paul Gauthrie (NPoC for USA) and Brad Cheetam (USA), and some other Advisory Board members participated very actively at the National Space Sysmposium (NSS), USA



5 south american region higlights

- Lisandro Martinez (Argentina) was appointed as an NPoC for his country
- Lisandro Martinez, Argentinian NPoC represented SGAC at the 6th Argentinean Congress for Space Technology
- Victoria Alonso Perez (Uruguay) was awarded the Peter Diamandis Scholarship to attend the SGC in Cape Town, South Africa
- Nicole Jordan (Colombia), RC for South America, was awarded the SSPI scholarship to attend the SGC in Cape Town, South Africa
- A team lead by Victoria Alonsoperez (Uruguay) was finalist at the Revolutionary Aerospace Systems Concepts-Academic Linkage (RASCAL) forum, organised by NASA and National Institute of Aerospace (NIA)



Space Generation Congress Report

1 overview

The Space Generation Congress is the annual meeting of the SGAC. The three days of the SGC 2011 brought together both young and experienced players in the space sector from more than 40 countries for inspiring, resourceful engagement.

The milestone 10th anniversary event, SGC 2011, was held in Cape Town, South Africa from September 29 to October 1, prior to the 62nd International Astronautical Congress (IAC). The SGC sold out at 130 delegates, a 30% increase compared to last year, which demonstrates SGC is becoming a highly desirable opportunity on the space community's calendar.

Attendees heard perspectives on space issues from leaders of the world's space organisations, including: the IAF, NASA, NASRDA, the South African National Space Agency (SANSA), and the UN COPUOS, among others. Simultaneously, leaders from these space organisations had the opportunity to gain an insight into the fresh, innovative, and bold perspectives of the incoming space generation regarding the five main SGC 2011 themes: Industry, Agency, Exploration, Society, and Outreach. SGC 2011 was organised by a group of volunteers from across the world and supported by several sponsors. The 2011 Space Generation Congress would not have been possible without either, and SGAC would like to express, again, its appreciation and gratitude.



2 speakers

Charles Bolden	NASA Administrator	
Berndt Feuerbacher	President of the IAF	
William Gerstenmaier	NASA Associate Administrator for Space Operations	
Graham Gibbs	Senior Policy Coordinator, Canadian Space Agency (CSA)	
Kevin Govender	Director of the Global Office of Astronomy Development (OAD)	
Alison Gibbings	PhD Student at University of Strathclyde	
Andreas Hornig	Master's Student at Stuttgart University	
Sandile Malinga	CEO of the SANSA	
Peter Martinez	Head of the Space Science and Technology Division at the South African Astronomical Observatory (SAAO)	
Fritz Merkel	Member of the Executive Board of OHB System AG	
S.O. Mohammed	Director General of NASRDA	
Dimitru Prunariu	Chairman of UN COPUOS	
Sergey Saveliev	Deputy Head of the Russian Federal Space Agency (ROSCOSMOS)	
Will Watson	Executive Director of the Space Frontier Foundation	
Ray Williamson	Executive Director of the Secure World Foundation	
Tanja Masson-Zwaan	President of the International Institute of Space Law	
Confirmed but unable to attend: Vladimir Popovkin (Head of ROSCOSMOS), Johann-Dietrich Wörner (Chairman of the Executive Board of DLR), & Steve MacLean (CSA President).		

Please see www.youtube.com/user/spacegeneration for selected speeches.



3 congress themes and project groups

At the core of SGC 2011 were the working groups, where delegates discussed their views on the development of space and prepared a set of recommendations to be published internationally by SGAC.

Each theme-working group produced a report on their discussions and recommendations, which will be shared with the United Nations as well as SGAC sponsors, members, and alumni around the world. SGAC would like to thank its key session supporters for making these SGC sessions possible: NASA Space Communications and Navigation (SCaN), DLR, South African Agency for Science and Technology Advancement (SAASTA), the Secure World Foundation, and SGAC's anonymous donor.

3.1 Industry – The Political and Technological Challenges of Space Debris and Its Mitigation

Supporter: SGAC's anonymous donor

Subject Matter Experts: Minoo Rathnasabapathy, Chijioke Cj Nwosa This group focused their debates and recommendations on three areas:

space situational awareness, better internationally adopted debris mitigation guidelines, and the particularly challenging topic of active debris removal.

3.2 Agency – Radio Frequency Spectra and Satellites: The Technological, Logistical and Political Implications of Regulation

Supporter: NASA SCaN

Subject Matter Expert: Stephanie Wan

This group looked at the problems of interference with essential services, competing socio-economic needs, and public versus commercial uses of spectrum bands. The recommendations focused on the assessment of emerging capabilities based on experience, the standardisation of emergency services, applications for safety of life, and methods to decrease unintentional upward radiation.



3.3 Society – Integrating Space Technology into Society: Overcoming Societal, Political, Economic, and Logistical Roadblocks

Supporter: Secure World Foundation

Subject Matter Expert: Agnieszka Lukaszczyk

This group based their discussion on the UN Millennium Development goals and identified lack of awareness as one of the most significant barriers that prevents space technologies from penetrating society. Their recommendations were to continue investment in space application research and development, share the results with international bodies which focus on identifying global problems, involve communication and outreach specialists from outside the space sector, and finally to coordinate the development of standard training curricula and best practices dialogue.

3.4 Exploration – Robotic Exploration in Today's Evolving Global Space Sector

Supporter: DLR

Subject Matter Expert: Andreas Hornig

This group focused on two destinations, Near Earth Objects and Europa, and identified ways in which robotic and human exploration can work together with the support of international collaboration. The group also looked at outreach initiatives that could make robotic exploration as exciting for the public as human missions.

3.5 Outreach – Space for Developing Regions: The African Case Study

Supporter: SAASTA

Subject Matter Expert: Brad Inggs

This group focused its analysis on Africa, but its conclusions are meant to be applicable more broadly across other developing regions as well. The group concluded that investing in space technology applications is more beneficial than spending resources on terrestrial applications. For example, in terms of telecommunications, space applications could help in distance education, while satellite observations are a cost-effective tool for use in mapping projects.

4 sgc 2011 statistics

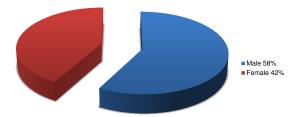
After careful selection, a total of 130 delegates participated in the SGC 2011. Of those 130, a ground-breaking 32 participants from 24 countries were given scholarships with the help from SGAC and its partners to attend SGC 2011 in Cape Town.



The gender distribution of the final delegates included a relative equality of men (58%) and women (42%), which is uncommon for the space sector. The delegate roster was composed of 20% undergraduate students, 38% masters students, 12% PhD students, 25% young professionals, and a 5% remainder from other backgrounds. We believe these numbers demonstrate how significantly SGAC's reach has improved. This gives SGAC the momentum to build a stronger and more representative network of young space professionals and university students.

Finally, SGAC is proud to have secured broad national and regional representation: SGC 2011 attendees came from more than 40 countries and six continents. This international diversity is the key to the development of the substantial and truly international voice of space generation for which SGAC strives.

Figure 4-1.



Gender of SGC 2011 Delegates

Figure 4-2.

Professional Status of SGC 2011 Delegates





Review: SGAC 2011 Strategic Goals

1 ovierview

The SGAC Strategic Plan 2011, published in January, set out nine goals for the year ahead. This section of the Annual Report is the Executive Office's self-assessment of how SGAC performed against these goals. This assessment is intended to provide an additional view on the context of SGAC's activities throughout the year and inform the development of the Strategic Plan for 2012.

2 strategic goal review

1 Continue efforts towards financial stabilisation

Output: Multi-year contracts or Memoranda of Understanding with sponsors

SGAC operated a strong financial base throughout the year to return a surplus as planned. The organisation grew both its revenue and surplus continuing a positive trend over recent years. All accounts were paid on time and the Executive office has been confident of its ability to operate throughout the year. Changes to SGAC's financial operations throughout 2011 included introducing a new, online bookkeeping system, transitioning a new Treasurer to the team, updating our transaction authorisations to allow for more flexible banking and completing an extensive review of our 501c3 obligations with a new accountant in the USA.

The major goal of securing multi-year contracts with main sponsors was not accomplished. Unfortunately, many of our sponsors are constrained in their ability to enter into such contracts and are only able to support the organisation on a year by year basis. Financial stability will be achieved by maintaining a close and trusted relationship with our major sponsors.

Another aspect of this objective is to save sufficient funds to maintain a balance in excess of SGAC's immediate operational needs – this objective is yet to be realised. Thankfully, there are sufficient funds to support two paid positions until such time as the transition between Ariane and Andrea in the Executive Director position is complete.



2 Database consolidation and membership definition

Output: Inaugural results of SGAC membership demographics survey – a short report on SGAC's membership base, its outlook and trends

Throughout 2011, SGAC has conducted a far-reaching redesign of its membership management systems and processes. Members were emailed with a unique confirmation code to confirm their membership throughout November and December, with all non-responsive accounts being deleted. The first assessment and analysis of this database is in very close to completion and is expected to be published in early 2012. In parallel to the database refreshment, SGAC has developed a membership system to keep track of members of our community who are no-longer eligible to be members. The Strategic Plan for 2012 will include the development of a strategy to define how to optimally communicate with these former members, as they are a potentially a highly valuable resource of advice and relationships.

3 New young professionals event in North America

Output: Report to the SGAC's members and stakeholders on the feasibility of a new space event for young professionals to be held in the US in 2012

SGAC's executive office did a thorough investigation into US events with which SGAC could hold a new event in 2012. Following the assessment, SGAC found the Space Foundation's National Space Symposium to be the optimal event. In December 2011, SGAC signed an agreement with Space Foundation to hold the 2012 "Space Generation Fusion Forum" in April 2012. This conference will focus on international participation and topics of relevance to our broad membership base, as well as contributing to the achievement of SGAC's other short-, mid- and long-term goals.

4 Space Generation Congress in South Africa

Output: Report on a successful event, which is measured on delegate numbers, diversity and contribution

The Space Generation Congress held in Cape Town, South Africa, in October 2011 was an overwhelming success, with a record number of delegates and a strong program of events. The event overcame the number of additional organisational risks to host the first SGC on the African continent. The number of delegates, as well as the monetary value of the scholarships awarded this year were much higher than those for SGC 2010 in Prague (27,000€ in 2011 versus 15,000€ in 2010). The attention generated by the event, particularly from world space leaders, and the support of organisations, greatly contributed



to the overall success of SGC 2011. SGC Final Report was completed with a high level of quality which has met our expectations and goals.

5 Increased contribution to space policy

Output: Contributions to national, regional and international space policy development published on SGAC website

SGAC members have participated in a number of space-related events, both attendees active participants presenting papers or through other contributions. Through SGAC's scholarships, reports such as the SGC 2011 report, and contributions to the UN Action Team 14 on Near Earth Objects and the International Committee on the GNSS, the next generation of space sector leaders have actively contributed to the development of space policy globally. Full details of SGAC's policy work throughout 2011 can be found on SGAC's website.

Delegates at the Space Generation Congress developed a plan for establishing a new working group focused on space policy and law. This working group will dedicate its work to contributing to raising the awareness regarding space policy and law, as well as formulating and promoting youth's perspective on the matters world-wide.

6 Establish enduring relationships with partner organisations

Output: Formalise the relationship with existing and new partner organisations through Memoranda of Understanding which outline the long term benefits of collaboration

The year 2011 was particularly fruitful in formalising SGAC's relationships with existing and new partners including Memoranda of Understanding with the following organisations:

- Deutsches Zentrum für Luft- und Raumfahrt (DLR)
- Institute of Air & Space Law (IASL)
- International Space University (ISU)
- Secure World Foundation
- Society of Satellite Professionals International (SSPI)
- Women in Aerospace Europe (WIA Europe)

Cooperation agreements were established with ESPI and AGI. These partnerships provide SGAC with a framework for on-going collaboration regardless of any changes in the leadership team.



7 Support of SGAC working groups and projects

Output: Annual Reports from the three established, and possibly additional, working groups with additional contributing members and wider dissemination

This year was marked by new energy and willingness to facilitate the work in the current and activate new working groups. Space Technologies for Disaster Management Working Group reassessed their objectives, and alongside new members will have a new website coming out. The NEO Working Group wrote their contribution to the COPUOS S&T, as well as once again successfully organised the NEO competition ran within the framework of SGC, with the winner Alison Gibbings attended SGC and IAC in Cape Town. The YGNSS Working Group organised a GEO-caching event during the IAC in Cape Town. The new Working Group on Space Safety and Sustainability submitted and presented full papers at the IAC in Cape Town, and at the IAASS conference in Versailles, France.

The SGAC's Project Coordinators, together with a group of enthusiastic members, are organising new working groups around topics of industry, space debris and its mitigation, space law and policy, as well as a range of competitions. These new activities are a very positive sign of reactivating some of the old working groups and continuing quality work that volunteers at SGAC are truly devoted to. Further details will be available in the SGAC 2011 Annual Report, which this year is extended by the reports from the working groups about their activities and achievements throughout the year.

8 Recognition for SGAC through an award

Output: A report to SGAC's Executive Council on SGAC's eligibility and competitiveness for available awards

SGAC has conducted a preliminary assessment of possible awards in the industry to discover there are very few opportunities available for recognition of an NGO. The Space Foundation's achievement award is one possibility, and further investigation will be conducted during 2012.



9 Consistent and modern branding

Output: A consistent and modern visual identity, including logos, typography, layout, and formatting, across all SGAC media

SGAC engaged professional creative designer and long-term contributor to SGAC, Karen Lau, to assist the development of a refreshed look and feel, to create a consistent and modern brand which will be pervasive throughout all its communications. As 2011 draws to a close, this work is in its final stage and SGAC Executive Committee is very happy to have acquired positive feedback and support of current and former members of the organisation as to the new logo and the general look that it will acquire to further promote its activities and their results. The new look will be rolled out across the organisation progressively from January 2012.



The Space Generation Advisory Council is very grateful once again for the generous support of our sponsors and partners. This year our sponsors and partners expanded their financial and intellectual (e.g., data, subject matter experts, speakers, etc.) contributions. Both types of contributions have played important roles in the improved quantity and quality of SGAC's output in 2011. SGAC would like to thank them once again for their contributions to one of the most successful years in SGAC history marked by the celebration of the 10th anniversary of SGC.

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Awardees of the Space Generation Keystone Supporter Award

In light of SGC's 10th Anniversary, SGAC's leadership felt it was necessary to recognise key individuals and organisations who have consistently and significantly supported SGAC through its growth, particularly during the past few years. SGAC extends its deepest gratitude to its Keystone Supporter awardees for their dedication and commitment to supporting the next generation of space sector leaders.

Cynda Collins Arsenault NASA Jim & Lin Burke

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