

THE 10TH ANNUAL SPACE GENERATION CONGRESS



FINAL REPORT EXECUTIVE SUMMARY



www.spacegenerationcongress.org



SPACE GENERATION ADVISORY COUNCIL
in Support of the United Nations Programme on Space Applications

c/o European Space Policy Institute (ESPI)

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SPONSORS AND PARTNERS

The 2011 Space Generation Congress (SGC) would not have been possible without the generous support of our sponsors. This year our sponsors went further than before and provided subject matter experts, speakers, reports, data, and other support to the intellectual content of the Space Generation Congress. The Space Generation Advisory Council (SGAC) would like to thank them for their contributions to one of the most successful Space Generation Congresses in SGAC history.

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LETTER FROM SGC CHAIRS

It is with great pleasure that we present to you the report of the 2011 Space Generation Congress, held September 29 – October 1 in Cape Town, South Africa. This year's congress attracted the biggest number of delegates since 2002 – 130 students and young professionals from more than 40 countries. All of them were highly motivated and worked hard to tackle the issues that the five project groups invited them to discuss and make recommendations. In addition, a remarkable number of list of guest speakers honoured SGAC and the SGC delegates with their presence including, Charles Bolden (NASA Administrator), Berndt Feuerbacher (President of the International Astronautical Federation), Dumitru Prunariu (Chairman of the United Nations Committee on the Peaceful Uses of Outer Space).

SGAC strives to help more university students and young professionals participate in more space events, more often. This year we managed to provide as many travel and registration scholarships delivered to people who would otherwise be unable to attend SGC and the International Astronautical Congress, as we did last year, which in monetary equivalent significantly supersedes the expenditures we made last SGC in Prague. Year on year, SGC provides an opportunity for young people from all over the world to come together, connect with similarly enthusiastic young people, learn a little more about their industry and provide their input to the space community. We hope that SGC 2011 helped to foster new ideas and showcase the best of young, current thinking on space issues.

We would like to thank Ariane Cornell, SGAC Executive Director, and the team for their tireless efforts in coordination, thinking and planning. Without their efforts SGC 2011 would not have come close to being the event that it was.

We look forward to building on the success of this year's SGC and furthering our goals in the international space community. In particular, we welcome to our team Deputy Executive Director Andrea Jaime, who will be leading the organisation of the SGC in Naples, Italy in 2012.

We hope to work with you all again next year and thanks once again for making SGC 2011 such a success!

..

Michael Brett

Chair

Catherine Doldirina

Co-Chair

LETTER FROM SGC CONGRESS MANAGER

At the beginning of the planning of SGC 2011, the SGC 2011 organising team organised the task was going to be difficult. SGC 2010 had broken SGAC scholarship records, had produced reports with intellectual depth, and had garnered many new partners and supporters of SGAC. How were we to top that?

With any challenge, though, comes opportunity, and the SGC 2011 organising staff rose to the occasion. This year our organising team was comprised of 21 people from 16 different countries on six continents. The team worked together to develop a strong programme for the working groups, a lineup of speakers that included the top leaders from around the international space sector, colorful, cultural networking events, and a group of sponsors that led to another record-breaking scholarship year.

We would like to personally thank the organising staff for their hard work and dedication in making the tenth edition of SGC truly a historic event for SGAC. SGAC would also like to thank the local organising team for their support throughout the organisation process.

The bar has been raised yet again for 2012. We look forward to seeing you all back at SGC 2012, this time in Naples, Italy, for what will be another historic Space Generation Congress!

Ariane Cornell

Executive Director and Congress Manager

SGC 2011 CONFERENCE OVERVIEW



Delegates of the 10TH Annual Space Generation Congress

The Space Generation Congress is the annual meeting of Space Generation Advisory Council in Support of the United Nations Programme on Space Applications. 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 Annual SGC 2011 was held in Cape Town, South Africa from September 29 to 1 October, prior to the 62nd International Astronautical Congress (IAC). The Congress sold out at 130 delegates which was a 30% increase compared to last year, a fact that demonstrates that SGC is becoming stronger with every year.

Attendees heard perspectives on space issues from top space organisations, including: the International Astronautical Federation (IAF), National Aeronautics and Space Administration (NASA), Nigeria's National Space Research and Development Agency (NASRDA), South African National Space Agency (SANSa) and United Nations Committee for the Peaceful Uses of Outer Space (UN COPUOS), among others. Conversely, leaders from these space organisations had the occasion 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 around 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.

SPEAKERS

Charles Bolden	NASA Administrator
Berndt Feuerbacher	President of the International Astronautical Federation (IAF)
William Gerstenmaier	NASA Associate Administrator for Space Operations
Alison Gibbings	PhD Student at University of Strathclyde
Graham Gibbs	Senior Policy Coordinator Government Liaison Office, Canadian Space Agency (CSA)
Kevin Govender	Director of the Global Office of Astronomy Development (OAD)
Andreas Hornig	Aerospace engineering student Stuttgart University
Sandile Malinga	CEO of the South African National Space Agency (SANSA)
Peter Martinez	Head of Space Science and Technology Division at the South African Astronomical Observatory (SAAO)
Fritz Merkel	Member of the Executive Board OHB System AG
S.O. Mohammed	Director General of Nigeria's National Space Research and Development Agency (NASRDA)
Dumitru Prunariu	Chairman of the United Nations Committee on the Peaceful Uses of Outer Space (UN COPUOS)
Sergey Saveliev	Deputy Head of 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)

CONGRESS HIGHLIGHTS

Day One

- SGAC Chair, Michael Brett, gave welcome words as he expressed his excitement and high expectations about this year's 10th anniversary Congress.
- SAASTA Outreach speaker, Kevin Govender, talked about both the benefits from space for developing countries as well as the necessary steps to implement space technologies into the societies of developing countries.
- Move an Asteroid Competition Winner, Alison Gibbings, shared her innovative, technical solution for deflecting Near Earth Objects (NEOs) using a smart cloud.
- Working Group Time
- Secure World Foundation Society Speaker, Ray Williamson, talked about integrating space technology into society and overcoming societal, political, economic and logistical roadblocks through identifying the difficulties as well as potential ways to facilitate the integration of space technologies into society.
- Working Group Time
- A "Getting to Know the IAC" presentation was given by Michael Brett to help introduce the big annual Congress that follows SGC.
- SGC 2011 delegates participated in the Opening Dinner and Culture Night Presentations at Karibu Restaurant, which truly emphasized the multi-cultural and multi-talented nature of the SGC attendees.



Kevin Govender



Ray Williamson

Day Two

- OHB-SGAC Award Winner, Andreas Hornig, presented his innovative mission to the Moon that earned him the 2011 OHB-SGAC scholarship.
- Exploration Session Speaker, Fritz Merkle, made a short overview of the history of exploration, focusing on the necessity to design cost-effective lunar exploration missions. He encouraged SGC 2011 delegates to get involved in exploration.
- NASA Agency Speaker, William Gerstenmaier, talked about the importance of spectrum in relaying mission



Merkle and Gerstenmaier

data transmitted back to Earth. He also touched upon the complexity of spectrum management and how the international players interact.

- William Watson gave an introduction to the Space Frontier Foundation and put forward the ideas that the human species needs to extend our lives into space and that commercial competition is an important enabler.
- Working Group Time
- Industry Session Speaker, Peter Martinez, talked about current international space security activities and initiatives. He focused on space infrastructure and the difference between space security and space sustainability.
- Working Group Time
- SGC 2011 delegates attended the SGAC Project Team Info Session where they were introduced with the three main projects SGAC supports throughout the year: Near Earth Objects (NEO) Working Group, SGAC Group on Space Technologies for Disaster Management, Space Safety and Sustainability (SSS) Working Group and Youth for Global Navigation Space Systems (YGNSS).



Delegates discussing and debating space debris in the Industry Project Group

Day Three

- SGAC Executive Director, Ariane Cornell, gave a short introduction of this year's special SGC Anniversary Day, which celebrated the ten years of SGC and was highlighted by the Congress' Featured Speakers.
- Sandile Malinga talked about the involvement of South Africa in terms of space and astronomy, pointing out how important it is for a developing country to use space science and technology to benefit people on the street.
- Sergey Saveliev introduced the Russian space activities and their heritage and commented that he was proud that the example of his country inspires the young generation to explore space.
- Berndt Feuerbacher underlined the strong bonds and partnership between SGAC and IAF in co-organising SGAC and IAC as well as in inviting and

encouraging students and young professionals to voice their opinions on space activities.

- Graham Gibbs talked about Canada's investment in space activities with the goal to advance national policy issues as security. He also touched on CSA's contribution to spaceflight, next to international partners.
- Tanja Masson-Zwaan gave a short presentation on Women in Aerospace Europe and its goal. She also highlighted the partnership opportunities between WIA-Europe and SGAC, encouraging delegates, both female and male to get involved. SGAC Co-Chairs and WIA-Europe representatives also signed an agreement between the two organisations.
- S.O. Mohammed introduced the Nigerian space programme and talked about the need for space technology development in Africa.
- Dumitru Prunariu introduced the SGC delegates to the goals of UN COPUOUS and presented his view in regards to the diverse pool of benefits that space brings to people.
- SGC delegates gave five 20-minute presentations encapsulating their fresh perspectives, in-depth analysis and innovative recommendations for issues connected with Industry, Agency, Society, Exploration and Outreach, which they had discussed in the previous two days. The presentations were attended by many of the day's Featured Speakers including Charles Bolden and Sandile Malinga.
- The formal closing dinner held at Marimba Restaurant was attended by SGC delegates and prominent international leaders of the space sector. The featured speaker, Charles Bolden started with a short summary of the ideas he had learnt during the SGC presentations earlier in the day and assured the delegates that he will take the SGC insights back home to share with other leaders of the space sector. Bolden also stressed the fact that he is well aware that he "has to provide the leadership and exploration you [SGC2011 delegates] expect from me".
- Also during the closing dinner, the first Space Generation Keystone Supporter Awards were given to five supporters – Cynda Collins Arsenault, Jim & Lin Burke, Lockheed Martin, NASA, and the Secure World Foundation – in recognition of their dedication to the development of SGAC and its members. Also during the dinner, SGAC's Co-Chairs, Michael Brett and Catherine Doldirina, and SGAC Executive Director, Ariane Cornell, presented certificates to the 32 delegates that SGAC had supported through sponsorship with support of its partners to come to Cape Town. These scholarship winners came from 24 different countries.



S.O. Mohammed



Charles F. Bolden

CONGRESS THEMES & RECOMMENDATIONS

At the core of SGC 2011 were the working groups, where delegates had the opportunity to discuss their views on the development of space. The themes of these discussions included Industry, Agency, Society, Exploration, and Outreach. Each theme-working group produces 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 SCan, DLR, SAASTA, the Secure World Foundation and SGAC's anonymous donor.



Crowded Earth Space

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

Subject Matter Experts: Minoo Rathnasabapathy and Chijioke Cj Nwosa

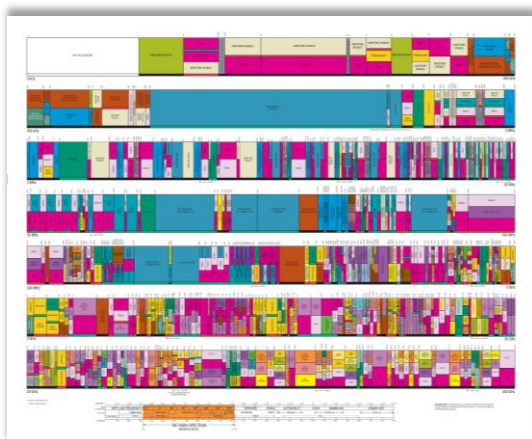
This group focused their debates and recommendations on three areas: space situational awareness, better and

internationally adopted debris mitigation guidelines and, finally, the more challenging topic of active debris removal.

Recommendations & Conclusions:

- Foster collaboration among established and emerging space nations to improve Space Situational Awareness (SSA)
- Encourage investment in infrastructure to broaden coverage
- Establish a neutral center to operate a two-pronged approach to data sharing that would:
 - Compile voluntarily contributed SSA data into one public catalogue
 - Offer black box solution for compiling sensitive/proprietary SSA data
- Encourage adoption of the Guidelines on national level supplemented by the Inter Agency Space Debris Coordination Committee (IADC) guidelines for technical specifications
- Promote effectiveness and ensuring compliance with the Guidelines
- Increase awareness of emerging space actors on significance of debris and mitigation issues
- Develop a mechanism to determine which orbital objects to remove and how to manage their removal
- Endeavour to create long-term, stable demand for commercially provided Active Debris Removal (ADR) services

- Establish domestic and international mechanisms to incentivise and fund the purchase of ADR services
- Focus domestic and international security and space policy decisions on mitigating irresponsible behaviors rather than prohibiting the development of particular technologies



Radio Frequency Allocations

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

Agency Subject Matter Expert: Stephanie Wan

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

Recommendations & Conclusions:

- Consider long-term implications over short-term tactics
- Assess emerging capabilities based on experience
- Standardise of emergency services
- Prioritise lifesaving services
- Use methods that decrease unintentional upward radiation
- Coordinate strategically spectrum allocation:
 - Protection of non-commercial services (e.g., education, medical)
 - Grouping high-noise applications together
 - Create formula for how to prioritise conflicting uses of a band



Earth Night Lights Mapped from Space

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

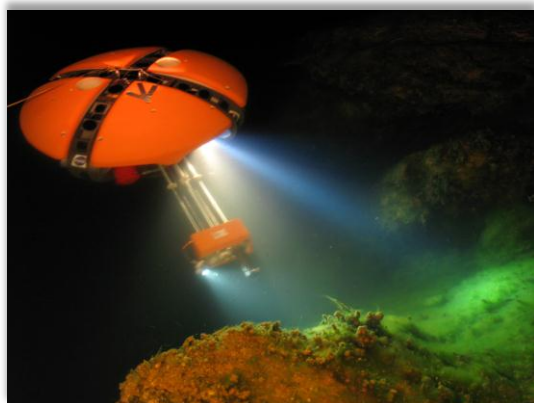
Society Subject Matter Expert: Agnieszka Lukaszczyk

This group based their discussion on the UN Millennium Development goals and identified that lack of awareness is one of the biggest barriers that prevents space technologies to penetrate society. Their recommendations were to continue the investment in research and development,

share the results with international bodies which work with identifying world problems, involve specialists in communication and outreach from outside the space community and finally coordinate development of standard training curricula, best practices dialogue and technology development agenda.

Recommendations & Conclusions:

- Encouraging application focused research and development aimed at high-impact economic and development objectives
- Integrating space activities and policies with other mission-oriented bodies and entities (e.g., World Health Organisation, World Bank, International Monetary Fund, & the United Nations)
- Developing outreach and awareness from a layperson perspective
- Reframe how the space sector talks about space: focus on benefits, not features
- Make space common knowledge through education and outreach activities
- Creating coordinated standard training curricula, best practices dialogue, and technology development agenda which are:
 - Responsive to new technologies and opportunities
 - Separate for managers and on-ground personnel



Deep Phreatic Thermal Explorer (DEPTHX)

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

Exploration 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 as human missions.

Recommendations & Conclusions:

- Robots are uniquely suited for two main types of missions:
 - Precursor missions to human exploration (e.g., NEOs)
 - Destinations otherwise inaccessible to humans (e.g., Europa)
- Robots may lack human dexterity, autonomy, and inspirational traits but are strong in other areas:
 - Enabling riskier and longer missions
 - Saving mass requirements and cost
 - Allowing scalable technical contributions, therefore easier collaboration
- Robotic and human exploration should be analyzed as complimentary not competitive approaches to exploration

- International collaboration is highly encouraged through modularised missions
- Robotic exploration should be incorporated into space outreach activities



Africa Mapped from Space

Outreach – Space for Developing Regions: The African Case Study

Outreach 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 telecommunication, space applications could help in distance education, whereas satellite observations are cost-effective in mapping. The recommendations are meant to address space outreach from a top-down policy approach and a bottom-up grassroots approach.

Recommendations & Conclusions:

For policy makers:

- Establish a liaison between each country's department of education and space-related organisation
- Create a UN resolution, which requires countries to focus on implementing space related educational activities (e.g., International Year of Space Science 2015)
- Encourage researchers to make public the knowledge generated in a way understood by the general public
- Prioritise policies that encourage international and local human capital development
- Work towards the development of national space agencies

For young professionals:

- Teach
- Engage by workshops, games and competitions
- Form clubs/societies and organise events
- Use social media or mobile phones
- Create entrepreneurial startups for grassroots/field teaching, technology development and space advocacy think tanks
- Get involved in policy making
- Create financial startups for scholarships to study space related subjects
- Encourage one's employers to get involved in initiating scholarships and internships

CONGRESS STATISTICS

As of the SGC 2011 application deadline of July 15, 276 applications had been received – a more than 20% increase over 2010. This interest and the quality of the applications underlined growth and development in the quality of the event.

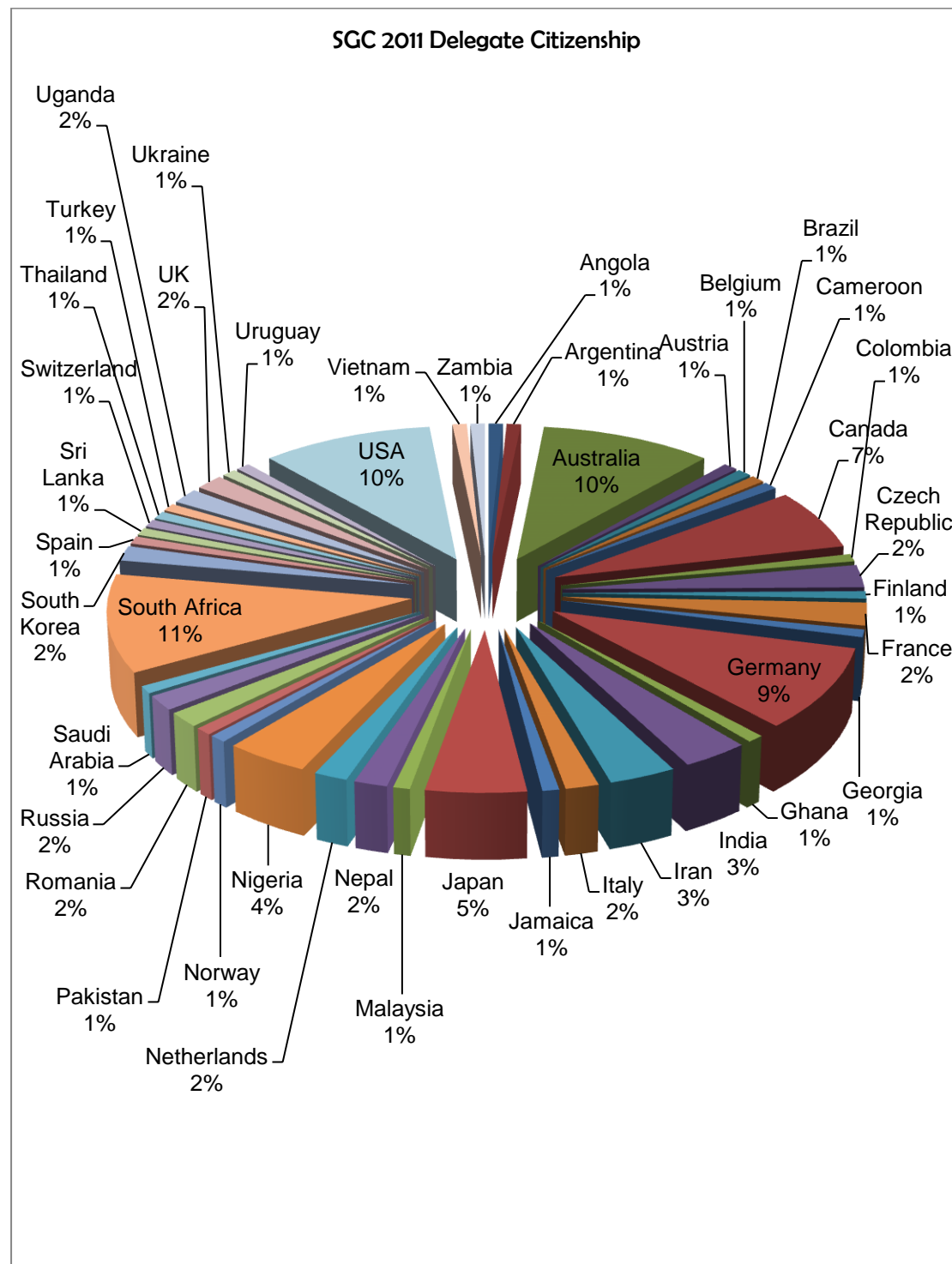
After careful selection, a total of 130 delegates participated at the 2011 Space Generation Congress. Of those 130, a ground-breaking 32 participants from 24 countries were given scholarships with help from SGAC and its partners to attend SGC 2011 in Cape Town. Regarding gender distribution of the final delegates, there was a relative equality of men (58%) and woman (42%), which is uncommon for the space sector. 38% of delegates were masters students, 20% were undergraduate students, 12% PhD students, 25% were young professionals, and the 5% remaining had other backgrounds. We believe this number to demonstrate how significantly improved SGAC's reach has become, and it gives us even more momentum to build a stronger and more representative network of young space professionals and university students.

Finally, SGAC is proud to say that the SGC 2011 attendees came from more than 40 countries and six continents. This international diversity is the key to developing the international youth space voice for which SGAC strives.



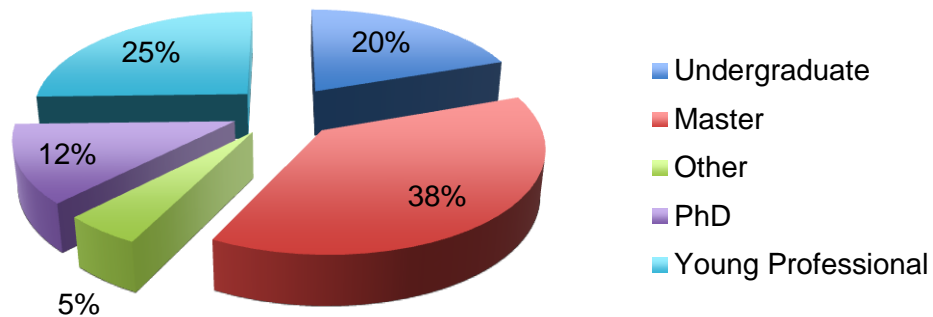
SGC 2011 Closing Dinner – from left: Anthony Tsurgranis (NASA International Programs Specialist) Michael Brett (SGAC Chair), Charles Bolden (NASA Administrator), Ariane Cornell (SGAC Executive Director) and Catherine Doldirina (SGAC Co-chair)

More than 40 countries participated in SGC 2011. The highest number of delegates (13) came from South Africa, followed by USA, Germany and Canada.



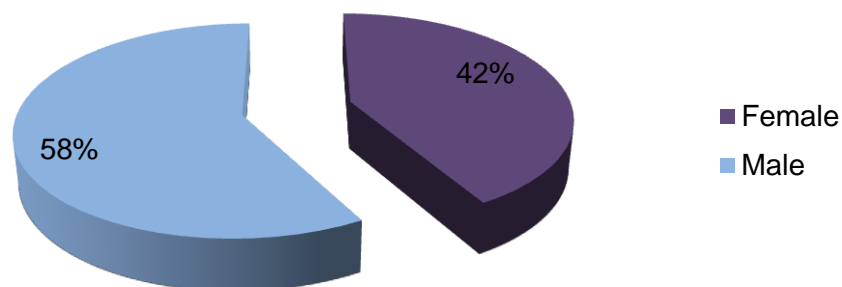
The professional statuses of our delegates represented a majority of students (Master, Phd, Bachelor) while 25% were young professionals (industry, postdoc, space agencies...).

Professional Status of SGC2011 Delegates



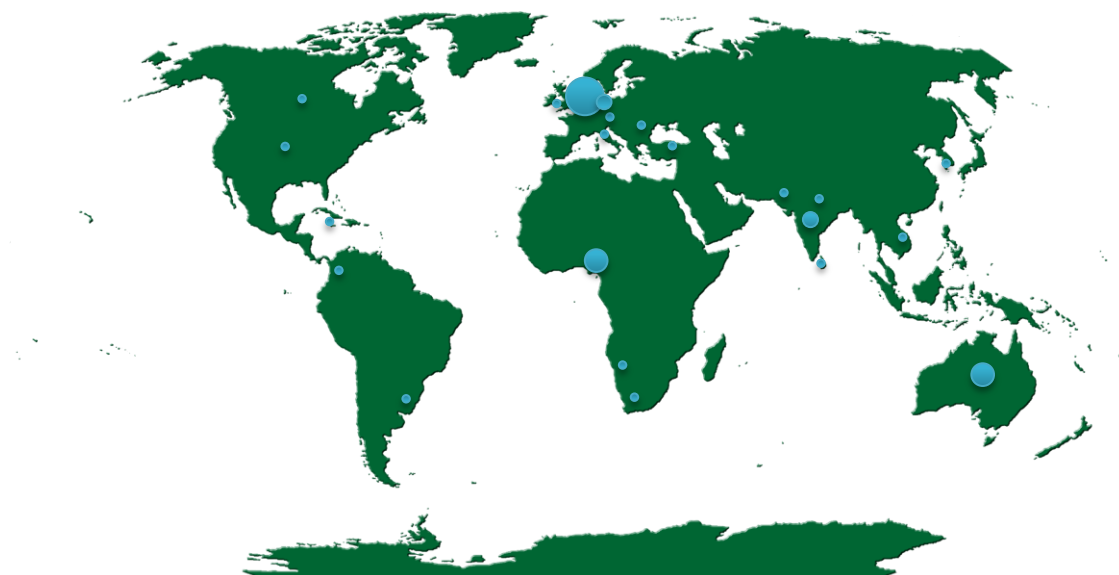
SGAC is proud to show an unusual equality in terms of gender. Almost 50% of delegates were female.

Gender of SGC2011 Delegates



SCHOLARSHIP STATISTICS

SGAC provided 32 scholarships to the organisation's top performing members to attend SGC 2011, which represents an increase of more than 30% in scholarship spending over last year's record figure. 24 countries from five continents were represented in the winner pool. As one of SGAC's goals is to bring the youth international space community together to discuss space issues, SGAC sees the 32 scholarships as a key indicator of SGC 2011's success.



Last Name	First Name	Scholarship Type	Country (main)
Ricardo	Leandro	SGAC Young Leader Award	Angola
Kretzenbacher	Michael	Australian Futures Award	Australia
Chen	Cynthia	Australian Futures Award	Australia
Grayson	Kristian	Australian Futures Award	Australia
Vasko	Chris	SGAC Young Leader Award	Austria
Bonin	Grant	SSPI Satellite Futures	Canada
Jordan	Nicole	SSPI Satellite Futures	Colombia
Schlutz	Juergen	SGAC Young Leader Award	Germany
Frey	Anja	DLR Standout Student Scholarship	Germany
Maier	Philipp	DLR Standout Student Scholarship	Germany
Renten	Pascal	DLR Standout Student Scholarship	Germany
Hornig	Andreas	OHB Scholarship Award	Germany
Chatterjee	Joyeeta	SGAC Young Leader Award	India

Nag	Sreeja	SSPI Satellite Futures	India
Paradiso	Nunzia Maria	SGAC Young Leader Award	Italy
Cornwall	Marc	SGAC Young Leader Award	Jamaica
Bhattari	Suresh	SGAC Young Leader Award	Nepal
Offiong	Etim	Ade Abiodun African Space Scholarship	Nigeria
Anyina	Chidi	NASRDA Award	Nigeria
Shadare	Adebawale	NASRDA Award	Nigeria
Mohammed	Shafiq	UN/IAF Workshop Scholarship	Pakistan
Mäihäniemi	Beata	SGAC Young Leader Award	Poland
Bruna	Ondrej	Czech Space Office Award	Poland
Sandu	Oana	SGAC Young Leader Award	Romania
Rathnasabapathy	Minoo	SGAC Young Leader Award	South Africa
Chung	So Young	UN/IAF Workshop Scholarship	South Korea
Ferreira	Yohan	SGAC Young Leader Award	Sri Lanka
Kayihan	Aziz	SGAC Young Leader Award	Turkey
Gibbins	Alison	Move an Asteriod	UK
Alonsoperez	Victoria	Peter Diamandis Scholarship	Uruguay
Guthrie	Paul	SGAC Young Leader Award	US
Trong	Thu Vu	UN/IAF Workshop Scholarship	Viet Nam

SCHEDULE

	Wed., 28 Sep	Thu., 29 Sep	Fri., 30 Sep	Sat., 1 Oct		
09:00	Delegate Arrivals	SGC 2011 Welcome	OHB-SGAC Award Winner	SGC Anniversay Day Intro		
		Outreach Spotlight Speaker	Exploration Spotlight Speaker	Malinga		
		Move An Asteroid Winner	Agency Spotlight Speaker	Saveliev		
10:00		Coffee Break				
		Working Group Time	Space Frontier Intro	Coffee Break		
			Coffee Break			
11:00			Working Group Time	Feuerbacher		
				Gibbs		
12:00				Women in Aerospace Lunch		
13:00		SANSA Lunch	Space Frontier Foundation Lunch	Women in Aerospace Lunch		
		Society Spotlight Speaker	Industry Spotlight Speaker	Women in Aerospace Intro		
14:00		Working Group Time	Working Group Time	Mohammed		
				Prunariu		
15:00				Group Picture		
				Coffee Break		
16:00					Group Presentations	
				Working Group Time		Working Group Time
17:00		Getting to Know the IAC (Optional)	SGAC Project Team Info Session (Optional)	Free Time		
18:00		Free Time	Free Time			
19:00						
	Optional Dinner (Marco's African Place)	Opening Dinner & Culture Night (Karibu Restaurant)	Free Time	Closing Dinner & Speech by Bolden (Marimba Restaurant)		
20:00-21:30						

SGC2011 ORGANISING TEAM

Michael Brett	Australia	Chair
Catherine Doldirina	Georgia	Co-Chair
Ariane Cornell	USA/France	Executive Director and Congress Manager
Andrea Jaime Albalat	Spain	Deputy Executive Director
Minoor Rathnasabapathy	South Africa	Logistics Lead Coordinator
Philip Harris	USA	Logistics Co-Coordinator
H. Tuğça Şener Şatır	Turkey	Logistics Co-Coordinator
Joyeeta Chatterjee	India	Project Lead Coordinator
Victoria Alonsoperez	Uruguay	Project Co-Coordinator
Kate Becker	USA	Project Co-Coordinator
Beata Mäihäniemi	Poland	Delegate Lead Coordinator
Crystal Forrester	Australia	Delegate Co-Coordinator
Zillin Elizabeth Tang	USA/China	Delegate Co-Coordinator
Farnaz Ghadahki	Canada/Iran	Communications Lead Coordinator
Oana Sandu	Romania	Communications Lead Coordinator
Julio Aprea	Argentina	Communications Co-Coordinator
Christopher Vasco	Austria	Communications Co-Coordinator
Pierre Van Heerden	South Africa	Local Team – Organising Lead Coordinator
Chijioke CJ Nwosa	South Africa	Local Team – Organising Co-Coordinator and IAC Booth Coordinator
Michael Afful	Ghana	Local Team – Organising Co-Coordinator
Dayne Kemp	South Africa	Local Team – Organising Co-Coordinator

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