



SPACE GENERATION ADVISORY COUNCIL

In Support of the United Nations Programme
on Space Applications



SGAC REGIONAL EVENTS

Outcomes of the Space Generation Workshops 2018



SPACE GENERATION
ADVISORY COUNCIL

SGAC SGWs

SGAC is committed to enable the secure and sustainable access to, and use of, space for socio-economic benefits and sustainable development in every region, especially in developing countries and emerging space nations.

4 Space Generation Workshops in 2018:

- 3rd E-SGW | Bucharest, Romania | Mars 2018
- 5th AP-SGW | Singapore | November 2018
- 4th SA-SGW | Bogota, Colombia | November 2018
- 2nd AF-SGW | Port-Louis, Mauritius | December 2018



Asia-Pacific
Space Generation Workshop
2018





Asia-Pacific
Space Generation Workshop
2018

5th Asia-Pacific Space Generation Workshop

November 2018

Singapore

Kindly Hosted by:

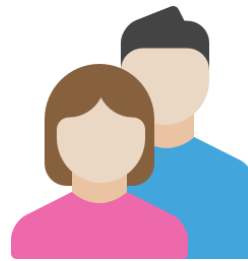


5th Asia-Pacific Space Generation Workshop

Statistics



Delegates: 70
Nationalities: 25

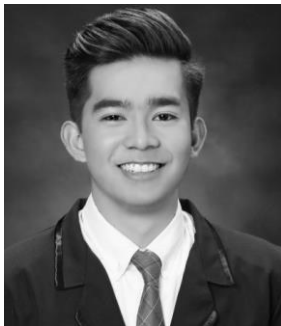


Male/Female ratio: 70%
/ 30%



4 Regional Space
Leader Awards

Awards



Harlee Quizzagan
Philippines



Anamol Mittal
Nepal



Hamza Hameed
Pakistan



Antonio Fowl Stark
South Korea

5th Asia-Pacific Space Generation Workshop

Working Groups Outcomes

Group 1: UNISPACE+50: what it mean for AP

- Inject space in a positive light into media and pop culture to educate and inspire
- Increase awareness of applicability of space technology to the general public
- Promote fair, consistent policies and create channels for transparent information-sharing within the government
- Create a participatory paradigm of regional inclusive growth sensitive to the Asia-Pacific regional diversity
- Promote coordination among independent, subject-matter experts that represents relevant stakeholders (e.g. an independent think-tank for the region)
- Promote the significance of long-term investment in space while catering to immediate, regional needs of each nation
- Strive for a more comprehensive understanding of the current legal framework of the region and promote future coordination for regional development

Group 2: The rise of small satellites

AP could benefit from the rise of small satellite with:

- Cost-effective means of mass producing of satellites
- Collaborative development - Sharing of materials and expertise
- Geographical advantage
- Climate change management
- Improvement of inter-region relations
- Data sharing (e.g. Weather forecast data)
- Availability of low-cost materials
- Education opportunities

5th Asia-Pacific Space Generation Workshop

Working Groups Outcomes

Group 3: How IoT will shape the AP economy

How can the region leverage the IoT economy and more precisely what are the strengths / weaknesses / threats / opportunities in Asia Pacific.

Opportunities include:

- Asia Pacific was one of the pioneer for standardization
- Rapid rise of NewSpace in the region as well

Threats include:

- Data Privacy concerns
- Export Control

Group 4: Gender Diversity in space

To cope with social stigma, religious and cultural barriers:

- Open discussion at the Geopolitical level
- Individual responsibility
- Showcasing role models from the region
- Outreach for the older generations

To cope with the lack of awareness, political barriers and issues in leadership/management:

- Primary level of awareness about space industry
- Creation of policy for number of women and LGBT in space
- Trainings and workshops on Gender Diversity

5th Asia-Pacific Space Generation Workshop





4th South-American Space Generation Workshop

November 2018

Bogota, Colombia

Kindly Hosted by:

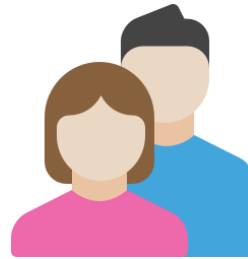


4th South-American Space Generation Workshop

Statistics



Delegates: 70
Nationalities: 6



Male/Female ratio: 68%
/ 32%

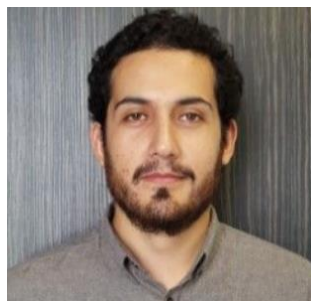


3 Regional Space
Leader Awards

Awards



Santiago Henn
Argentina



Miguel Heredia
Bolivia



Jimmy Gora
Peru

4th South-American Space Generation Workshop

Working Groups Outcomes

Group 1: South America in Space Exploration

The role we must take is to be active participants from our region on the space exploration. The passion of South Americans for space is sometimes more noticeable than in the rest of the world, the question we must ask is, how can South America get more involved in this?

1. Open Source Analog Habitat
2. Courses and Mentoring
3. South American Space Manual

Group 2: Space Entrepreneurship

1. Be an active part of entrepreneurship ecosystem in all the countries in the region to bring the space topic to the discussions
2. Strategic alliances between countries to access the global market with innovative products based on the region's strengths related with space technologies.
3. Promote mentoring activities online to get more interested people involved in the subject
4. Create more activities to discuss ideas and create innovative products to build more technology-based companies

4th South-American Space Generation Workshop

Working Groups Outcomes

Group 3: Latin American Space Agency: why and how?

1. The creation of an enabling organization committed to aerospace development
2. Strategic partners to help convince governments of the benefits of a LASA and proposing regional projects
3. Build an ecosystem of participation between the state, academia and the private sector
4. Socio-economic and civil alliances between countries to foster confidence and the habit of teamwork for the creation of the LASA
5. A supranational Latin American project as a platform for the regional union and a model prior to the creation of LASA.

Group 4: Small Satellites applications in South America

1. Promote from academia the interest in development on satellite technology
2. Increase the communications between different institutions on a national and regional level
3. Focus on main areas where South America has a potential for development of small satellite missions
4. Develop outreach programs underscoring the importance of satellite missions for the region, in particular in young students
5. Develop networks on both national and international levels for cooperation on different projects

4th South-American Space Generation Workshop

Working Groups Outcomes

Group 5: Space in Societies: New Opportunities

1. Create an international reference document that specifies how the objectives of sustainable development can be addressed with solutions from the aerospace sector.
2. Create an international advisory committee on space activities at the United Nations, with the participation of SGAC as a key contact between developing regions and the United Nations actor

Both 1 and 2 could play an important and valuable role as tools for political and economic actors who must make decisions regarding the space sector, but do not have the time, support or knowledge necessary to make an informed decision.

1. SGAC to carry out a training program in outreach, designed to train its members in the most appropriate methodologies to link space sciences and society, according to their region.

4th South-American Space Generation Workshop





2nd African Space Generation Workshop

December 2018

Port Louis - Mauritius

Kindly Hosted by:



RAJIV GANDHI SCIENCE CENTRE



Promoting Science and Technology



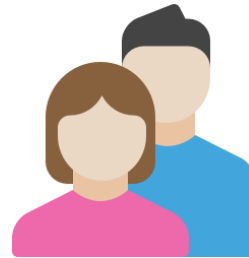
SPACE GENERATION
ADVISORY COUNCIL

2nd African Space Generation Workshop

Statistics



Delegates: 93
Nationalities: 19



Male/Female ratio: 56%
/ 44%



4 Regional Space
Leader Awards

Awards



Hanadi Abdalla Sudan



Herman Akagla
Togo



Ani Vermeulen
South Africa



Nebiu Mohammed
Ethiopia

2nd African Space Generation Workshop

Working Groups Outcomes

Group 1: Space Law and Policy

- We recommend all African spacefaring nations to do an inventory of knowledge and capacity to access current needs and provide an overall status update
- Encourage further cross-country collaboration and sharing of best practices within the region
- Envision and create a roadmap for the the possibility of the establishment of the African Space Agency with consideration to the African Union's vision
- Support and enable request for assistance in capacity building tailored to their needs of the individual states.

Group 2: Space Business and Entrepreneurship

- Establish an online platform for young entrepreneurs to share and receive guidance, specific to African countries and conditions, on how to run and sustain a space start-up or business, including but not limited to information such as lessons learned by seasoned entrepreneurs, case studies etc...
- Enable platform to be open to African entrepreneurs as well as different stakeholders such as mentors, experts, investors from around the world.
- Platform to act as a catalyst for talent matching programs, country-specific partnerships, local events and meet-ups, expert mentorship, investor & sponsor hubs.
- Platform to encourage and support offline and online workshops, meetings and trainings for entrepreneurs

2nd African Space Generation Workshop

Working Groups Outcomes

Group 3: STEM outreach and the role of Youth in the development of the African space sector

- Propose a separate SGAC channel for STEAM outreach to discuss and undertake activities and events regarding outreach in African countries.
- Create a network of SGAC National Outreach Coordinators to focus on outreach and support the work of the current National Point of Contacts in each country.
- Undertake (country-specific) gap analysis of informational needs such as – organizations active in the African Space environment, resources available, funding available, STEAM education in African countries, etc. and make this information available to all members
- Devise and advance localized/different models for improving outreach among member countries
- Link identified strategies to the African Union Policy and Strategy on Space Science

Group 4: Capacity Building and SDGs

- Develop a Space Journey Roadmap for capacity building based on need-based assessment of the gaps currently present in the existing capacity within the region.
- African countries should come up with favourable policies, improve infrastructure and create opportunities in an effort to localize capacity building thereby curbing brain drain
- African countries should work towards collaborations in target/objective based data collection, information sharing and data access across the continent.
- There is need for creating awareness:
 - among the general African public on the benefits of space science and technology for the continent
 - among local experts and end users on the available data
- African countries should start small with the existing infrastructure while working towards bettering and improving the infrastructure.

2nd African Space Generation Workshop





THANK YOU

More details of the outcomes and discussions of the SGC and the different Space Generation Workshop will be published in the SGAC 2018 Annual Report

www.spacegeneration.org