



Space Generation Advisory Council

In Support of the United Nations Programme on Space Applications

Delegate Handbook



**3rd SOUTH
AMERICAN**
**SPACE
GENERATION
WORKSHOP**

São José dos Campos
BRASIL





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Pg. Industrial
Caretório
Vale Sul Sudoeste

Tombas
de Seta de
de Escalões
Av. Ambrósio



1. Greetings from the Executive Office

Dear 3rd SA-SGW 2017 delegates,

We would like to welcome you to the 3rd South-American Space Generation Workshop 2017, our third edition in South America!

With the exciting new activities and enthusiasm in the space sector in your region, we hope your contribution to the workshop can fuel the discussion of important issues in the space field and help your voices be heard both in this region and around the world.

We believe your role as a delegate is to work and play hard, make sure your voice is heard and challenge yourself with the new concepts and ideas from people surrounding you. Enjoy the short time of the workshop to meet with your peers from different countries to develop new ideas. Remember, the people you meet during the event are just the beginning of a possible long-term space cooperation!

The workshop's organizing team has put together a phenomenal program for you, featuring a variety of speakers representing different viewpoints from government, industry and academia. We hope you have a memorable experience and get equally energized by the enthusiasm from this event!

Clementine Decoopman
SGAC Executive Director

Ali Nasser
SGAC Chair

Alexander Gibson
SGAC Co-Chair

Dear 3rd SA-SGW 2017 delegates,

On behalf of the Space Generation Advisory Council Team, we are delighted to welcome you to the event! You are entering into two days of dynamic debate on future regional space collaboration in a unique and high-energy environment geared towards highly-motivated representatives like you.

Over the next two days, you will have the chance to express your ideas, network with people from around the region and meet the regional leaders of space sector of the South America. The organizing team has put together this solid program for you all. We are here to help you and, please, feel free to reach out to us, so that we can make the event an unforgettable experience for you. SGAC would like to extend a special thank you to our sponsors, with whom we have partnered to realize a successful workshop.

We all hope that you enjoy the event and we wish you all a great workshop!

Avid Ramon-Gonzalez
SGAC-SA Regional Coord.

Natalia I. V. Cuentas
SGAC-SA Regional Coord.

Josué C. dos Santos
3rd SA-SGW 2017 Co-Manager Organizer



2. About Us

SPACE GENERATION ADVISORY COUNCIL



The Space Generation Advisory Council in support of the United Nations Program on Space Applications (SGAC) is a non-governmental organization which aims to represent university students and young space professionals to the United Nations, States, agencies, industry and other space sector organizations. SGAC was conceived at the Third United Nations Conference on the Exploration and Peaceful Uses of Space (UNISPACE III) in Vienna, in 1999, and has permanent observer status in the UN Committee on the Peaceful Uses of Outer Space (COPUOS). SGAC's focus is on pragmatic space policy advice to policy makers based on the interests of our worldwide network of university students and young professionals, roughly between the ages of 18 and 35. Our international network, represented in more than 90 countries, is the largest of its kind and grows annually. SGAC serves to act as the forum to bring the voice of the youth to current leaders and decision makers. In addition to policy advice, members of our volunteer network create groups to carry out a range of projects including the Youth for Global Navigation Satellite Systems (YGNSS) group, the Space Technologies for Disaster Management team, the Near-Earth Object group, the Space Safety and Sustainability project group, the Space Law group, the Small Satellites group and the Commercial Space project group. SGAC holds an annual conference entitled Space Generation Congress (SGC) held in conjunction with the International Astronautical Congress (IAC), in which SGAC invites up to 130 delegates consisting of university students and young professionals from across the globe through a competitive selection process to come and discuss key space issues.

 spacegeneration.org

 [sgac](https://twitter.com/sgac)

 [spacegeneration](https://facebook.com/spacegeneration)



3. The Event

The 3rd South American Space Generation Workshop is a two-day regional event for undergraduate, graduate students and young professionals of South America. It will be held in São José dos Campos, Brazil, on November 9th - 10th.

During the workshop, the delegates will have a unique opportunity to engage with high-level leaders, professionals and academics of the space sector. The agenda includes lectures, posters presentation, discussions and working groups on current space topics. In the working groups sessions, the participants and the experts will collaborate with each other on the following topics:

- Education in space topics;
- Sustainability of Mars Analog Research Station in South America;
- South American initiatives for the development of collaborative space activities;

The outcome from these working groups will be presented at the end of the event and further submitted as SGAC recommendations to United Nations Committee on the Peaceful Uses of Outer Space (UN COPUOS).



3.1 Schedule

From	To	November 9 th	November 10 th
08:30	09:00	Registration	
09:00	09:15	3 rd SA-SGW 2017 Welcome	Second Day Introduction
09:15	09:30	SGAC Introduction	Working Group Time
09:30	09:45	INPE Introduction	Working Group Time
09:45	10:00	Working Groups Introduction	Working Group Time
10:00	10:30	Coffee Break	Coffee Break
10:30	11:00	Working Group Time	Speaker 5: André Amarante Luiz
11:00	11:30	Speaker 1: Rodolpho Vilhena	Technical Visit to LIT
11:30	12:00	Speaker 2: Othon Winter	Technical Visit to LIT
12:00	13:30	Lunch	Lunch
13:30	14:00	Speaker 3: Lucas Fonseca	Working Group Time
14:00	14:45	Speaker 3: Lucas Fonseca	Speaker 6: Odyllo D. Aguiar
14:45	15:30	Working Group Time	Speaker 7: Rafael Sfair
15:30	16:00	Working Group Time	Group Picture
16:00	16:30	Coffee Break + Posters	Coffee Break + Posters
16:30	17:00	Working Group Time	Working Group Time
17:00	17:30	Speaker 4: Marcelo Essado	Working group presentations
17:30	17:45	Closing Remarks	Working group presentations
17:45	19:00		Transfer to Dinner
19:00	22:00		Closing Dinner

3.2 Working Group Topics

One of the primary components of the 3rd SA-SGW 2017 are the working group sessions. Each delegate is assigned into one of three groups. The groups in the break-out sessions discuss a pertinent space topic, which is guided by Subject Matter Experts from the field, who will join these working groups to support them with knowledge to make the group discussions more productive. The preliminary conclusions of each group are presented to the rest of the delegates on the last afternoon of the workshop and the final conclusions are written into reports that are presented to the SGAC Executive Team.

The three workshop topics of this year are:

- How could the space sector (universities, industry and governments) contribute to the equality of the local education?
- Sustainability of a Mars Analog Research Station in South America.
- South American initiatives for the development of collaborative space activities.



1. How could space sector (universities, industry, governments) contribute to the quality of local education?

The space sector has always been a great source of innovation for the world. A lot of the technological challenges facing this sector that have always been overcome with great effort. Along the time, the academia, industry and the government have formed a tripod which supports this important sector in modern society. However, in some regions such as South America, these three elements are extremely distanced, with only a few partnerships between these sectors. The working group should discuss how to minimize these distances between the pillars of the tripod and debate what are the causes that do not allow this tripod to be created in our region. The working group could study the cases of countries where for a few decades there has not even been a space program and today they have a complete space program as is the case of China and India. Finally, the working group could explore and study the particular cases or policies of our region where the space industry, academia and the government have already created new partnerships for technology and education.

The working group could explore:

- What are the space policies that other countries implemented and that could also be implemented in South America?
- Is it possible the creation of a South American Space University similar to the International Space University?

The working group can propose recommendations on:

- A new education system for space research, financial possibilities and start-up initiatives.

2. Sustainability of Mars Analog Research Station in South America?

Acknowledging the efforts in the region and success stories across the globe, this topic explores ways of how to make a Mars Analog in South America economically sustainable on time. Think about the previous, current and future innovative outcomes that may contribute the local communities where they are built. Furthermore, analyze possible partnerships with the local industry and the benefits that it may provide all the involved parts. Finally, evaluate the current political context of the region, the opportunities that the governments are currently providing and realistic next steps to make a Mars Analog to thrive.

The working group can explore:

- Which are the previous, current and future innovatives Mars Analogs outcomes that contributed or may contribute the local communities where they are built?
- Which are the possible partnerships with the local industry? How may they benefit all the involved parts?
- Which is the current political context of the region? Which opportunities the governments are currently providing for this project? Which are the next steps to take for developing Mars Analogs in South America?

3. South American initiatives for the development of collaborative space activities

The development of space activities is regulated by standards, which help establish common ground for the participants. Within a South American collaboration, this would not be different, and the participant parts have to agree on what standards should be taken into account when interacting whether among the collaborators, or with other agencies. The group should explore past examples of successful collaboration within the region and how to extrapolate that to the space activities. The group should also explore possible pilot, small scale projects, which would allow for the testing on standards and protocols on topics such as manufacturing, communication, documentation, etc. Finally, the group should discuss what institutions can become part of the collaboration, as well as how will they interact and what benefits can be relevant for them to be willing to become members.

The working group can explore:

- What are the examples of previous regional successful cooperation?
- What institutions would be in charge of overlooking the cooperation?
- What legal bindings can be proposed for the participant countries?

The working group can propose recommendations on:

- Possible projects to be developed as testing ground for collaboration. Standards and protocols to be developed or adopted by the region. Types of institutions that can be part of the collaboration initiatives.

3.3 Subject Matter Experts/Speakers

Prof. Othon Winter, Ph.D.



Dr. Othon Winter works at São Paulo State University (UNESP) in the School of Engineering. Holds a bachelor's degree in Physics from the São Paulo State University (1985), master's degree in Aerospace Engineering by the Technological Institute of Aeronautics (ITA - 1990) and Ph.D. in Dynamics of the Solar System of Queen Mary and Westfield College - University of London (1994). He has experience in Aerospace Engineering and Orbital Dynamics, focusing on the following topics: stability, three-body problem, chaos, Poincaré section and resonance. Leader of the Group On Orbital Dynamics and Planetary (UNESP) and researcher of the Group on Space Trajectories at INPE. Currently is Vice-Chair at the Panel on Satellite Dynamics of the Committee on Space Research (COSPAR). Also works with the Brazilian Aerospace Association (AEB), Brazilian Astronomical Society (SAB) and International Astronomical Union (IAU). In 2017, the asteroid (10697) Othonwinter was named after him due to his major contributions to the field of orbital dynamics.

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Prof. Rodolpho Vilhena de Moraes, Ph.D.



Dr. Rodolpho Vilhena de Moraes coordinates the Thematic Project "Dynamics of Artificial Satellites", granted by São Paulo Research Foundation (FAPESP). Holds B.Sc. in Mathematics from the Mackenzie University in 1962, M.Sc. in Mathematics from Technological Institute of Aeronautics (ITA) in 1968 and Ph.D. in Orbital Dynamics and Flight Mechanics from Technological Institute of Aeronautics (ITA) in 1978. He has a postdoctoral position in Aerospace Engineering at Texas University at Austin - USA in 1987. Prof. Vilhena de Moraes retired from ITA, where he worked for 32 years (1963-1995), and retired from the Department of Mathematics of São Paulo State University (UNESP) where he worked between 1995 and 2010. He was full professor at ITA and is an *emeritus professor* of UNESP (2011) along with being associate professor in the graduate program in Aerospace Engineering and Technology of the National Institute for Space Research (INPE). He was a senior national visiting professor at the Institute of Science and Technology of the Federal University of São Paulo (ICT-UNIFESP) between 2010 and 2014, a visiting researcher at INPE in 2015 and a visiting professor at UNIFESP in 2015. His main topics of research are Celestial Mechanics and Aerospace Engineering, with emphasis on trajectories and orbits, working mainly on the following subjects: Artificial Satellites, Orbital Perturbations, Perturbation Theory and Resonances. He has co-authored books and chapters regarding these topics and space history in Brazil. He is co-founder of GRAM, now CRAAM (group of radio astronomy of Mackenzie University).

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Prof. Odylio Denys de Aguiar, Ph.D.



Dr. Odylio Aguiar works at National Institute for Space Research (INPE), division of Astrophysics. Holds a bachelor's degree in Electronics from the Technological Institute of Aeronautics, 1978, master's degree in Astrophysics from National Institute for Space Research, 1983, and Ph.D. in Physics by Louisiana State University System. He is a full professor at INPE, where he works at the postgraduate school on Astrophysics and also has supervised several Ph.D. and postdoctor projects along his career. His majors are connected to areas of Physics such as Relativity and Experimental Gravitation. The main topics of his investigations are: gravitational waves and their detection, Mario Schenberg detector, LIGO project, LIGO Voyager. He has been part of the scientific collaborative project LIGO (LSC), which made the first detections of gravitational waves (2015 and 2017), inaugurating a new window for universe

observations: Astronomy/Astrophysics of Gravitational Waves. Nowadays, he is coordinating the development of technology for the detection of gravitational waves in Brazil, seeking to consolidate Brazilian Scientific Community in projects of detection and observation of Gravitational Waves.

Mr. Lucas Fonseca, Engineer

Eng. Lucas Fonseca is an entrepreneur, founder and CEO of the Aerospace Company Airvantis, while also involved in projects connecting Brazilian public and private schools to NASA. Holds a bachelor's degree in Engineering from University of São Paulo (USP) and a master's degree from Ecole Nationale Supérieure de l'Aéronautique et de l'Espace (France). He served as an engineer of the space mission Rosetta. Currently, he is the Mission Director at the first Brazilian Lunar Mission (Mission Garatêa). This mission will help understand more about us, our origins and future of the universe. His team is developing a small satellite using advanced technologies, capable of running experiments that will test if living organisms can survive long space travels. The launch is expected to happen in 2020.

Prof. André Amarante, Ph.D.

Dr. André Amarante works at São Paulo State University (UNESP) as Substitute Professor at the Mathematics Department, Institute of Biosciences, Literature and Exact Sciences. Holds a bachelor's degree in Mathematics from the São Paulo State University Júlio de Mesquita Filho, campus of São José do Rio Preto (2010). He has a M.Sc. in Physics from the São Paulo State University Júlio de Mesquita Filho (2012) and a Doctorate in Physics, also from the São Paulo State University Júlio de Mesquita Filho. Has experience in Astronomy and Mathematics, with emphasis in Dynamic Astronomy and Mathematics Teaching, mainly working on the following topics: Planetary Systems Dynamics, Asteroid Dynamics, Observational Astronomy, Numerical Simulation and History of Mathematics.

Mr. Marcelo Essado, Engineer

Eng. Marcelo Essado works with space systems for more than 13 years. He is the author of the book "Sistemas Espaciais: Refinamento de Requisitos em Missões de Satélites" (Space Systems: Requirements Refinement for Satellite Missions), as well as scientific and technical articles. He is the director of EMSISTI Space Systems & Technology, a Brazilian aerospace company, member of advisor board of Brazilian Civil Aerospace Association (AAB) and COBRUF Association (Brazilian University Rocket Competition) aerospace evaluation specialist. Entrepreneur, mentor, professor and speaker, has founded two startups and develop technological, education and social projects.

Prof. Rafael Sfair, Ph.D.

Dr. Rafael Sfair is currently an Assistant Professor at the Mathematics Department of São Paulo State University (UNESP), campus of Guaratinguetá (FEG), since 2011. Prof. Rafael Sfair has a Bachelor and Licentiate degree in Physics by Federal University of Paraná (2004) and M.Sc. and Ph.D. in Physics by São Paulo State University (UNESP) in 2007 and 2011. He was also a visiting doctoral researcher at Observatoire de Paris-Meudon (2009) and a postdoc research fellow at UNESP in 2011. His main topics of research are Celestial Mechanics, Orbital Dynamics, Planetary Rings and Observational Astronomy with emphasis on the following topics: Numerical Simulations, Image Analysis, Solar Radiation Pressure, Occultations. He was part of team of researchers that have recently discovered the first system of rings around a minor body in the Solar Solar, the centaur asteroid Chariklo.

3.4 The Venue

ABOUT INPE

The 3rd SA-SGW 2017 will be hosted by the National Institute for Space Research (INPE) at the Integration and Tests Laboratory (LIT). A brief history of the institute follows.



The National Institute of Space Research (INPE) is an advanced Brazilian institute dedicated to space research. Its headquarters is located in the municipality of São José dos Campos and it has facilities in 12 other cities in the national territory. The institute began in 1961 with the creation of the Organization Group of the National Commission of Space Activities (GOCNAE), the embryo of INPE. The institute's mission is to produce science and technology in the space and terrestrial environment and offer unique products and services for the benefit of Brazil. In addition to the technologies developed, it has a postgraduate school, being one of the main responsables for the formation of professionals of the space sector in Brazil. Internationally renowned, it maintains cooperative relations with the world's leading space agencies such as NASA, ESA, JAXA, among others.

-  inpe.br
-  lit.inpe.br
-  [inpe_mct](https://twitter.com/inpe_mct)

LOCATION AND IMPORTANT INFORMATIONS ABOUT THE VENUE

⇒ The institute is located on Avenida dos Astronautas, 1758, Jardim da Granja, São José dos Campos, Brazil, 12.227-010;

⇒ The delegates must enter through INPE's main entrance and present ID. It's strongly advised to ask for directions of LIT Laboratory;

⇒ The delegates may enter through the **tower B** of the LIT Laboratory and identify themselves again;

⇒ The workshop will take place at the **Roger Honiat Auditorium**, second floor of LIT Laboratory;

⇒ The working groups sessions will happen at the first floor of LIT Laboratory (there will be indicative signs);

⇒ The poster presentations will be in a adjacent place to the **Roger Honiat Auditorium**;

⇒ Due to the nature of the work done in the facility, the attendees must keep a low tone of voice and noise while transiting in the corridors;

3.5 Delegate Registration and Important Program Notes

DELEGATE REGISTRATION

The delegates registration will happen on Thursday, November 9th, from 8:30 a.m. to 9:00 a.m., at the entrance of the Roger Honiat Auditorium. For the **late arrivals**, the delegates must look for the 3rd SA-SGW 2017 staff at the venue of the event.

WORKSHOP LANGUAGE

The 3rd SA-SGW 2017 is an international workshop, thus, the official language of the event is English. All presentations, reports and materials will be in English. Therefore, it is expected of all attendees a high-level of English that allow effective communication with other peers.

WORKSHOP DRESS CODE

The dress code for the workshop is business casual. Attire for the closing dinner is business casual.

WORKSHOP ATTENDANCE

Note that punctual attendance is required for all sessions. This requirement is to show respect for the speakers as well as for the working group teammates.

3.6 Meals



COFFEE BREAKS

The event will have two coffee breaks per day according to the event schedule. All coffee breaks will be held at the workshop venue and will be provided, free of charge, by the event and Neyde Buffet & Rotisserie company.

LUNCHES

During the workshop, lunches will not be provided by the event. We recommend not eating outside INPE due to the lack of good options nearby. Inside the institute there are two restaurants:

- **Bella Vista Restaurant:** R\$33.90 per kg;
- **ADC Restaurant:** R\$27.90 per kg;

DINNER

The closing dinner will be held on November 10th after the end of the workshop. It will not be provided by the event. The delegates interested to be part of the dinner must send their full names to the following e-mail until Thursday (November 9th) noon. The location and prices will be available on the event website.

✉ livia.thibes@gmail.com

🏠 sgw2017.com



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Av. Ambrósio



4. Additional Notes

4.1 About São José dos Campos

São José dos Campos is a municipality in the state of São Paulo, Brazil, located in the Paraíba Valley, being considered the seventh largest city of the state. It is considered the largest research center in high technology of the country, specially on military intelligence and aerospace technology, besides having some of the best universities and advanced research institutes of the country.

According to United Nations studies, São José dos Campos was ranked as one of the 25 best cities in Brazil in terms of quality of life. With its high per capita income, life expectancy and infrastructure, the city is safe and offers good services to the population.

LANGUAGE

The official language of Brazil is the Portuguese. The Brazilian population, in general, does not speak English. If you are a south american visiting, the communication will be easier if you speak in Spanish on a slow mode.

CLIMATE AND EXPECTED WEATHER

The climate of São José dos Campos is high-altitude tropical with decreasing rainfall in winter and an average annual temperature of 19.3°C, with dry and mild winters (rarely too cold) and rainy summers with moderately high temperatures. The hottest month, February, has an average temperature of 22.4°C, and the coldest, July, 15.6°C. Autumn and spring are transition seasons.

TRANSPORTATION AND TRAFFIC

Traffic: it generally flows well except during rush hours. We advise the pedestrians to be careful while crossing the streets and speedways and always use the crosswalks.

Transportation: São José dos Campos is a city on which is hard to move around by foot, however, it has, in general, a good transportation system. Its bus service goes quickly almost everywhere. Another good options are taxis and mobile apps services like

- **Uber:** global transportation service;
- **99pop:** national and cheaper version of Uber;



LAW, SAFETY AND SECURITY

São José dos Campos is considered a safe city. However, like everywhere, there are some risky areas that should be avoided such as the far south and east side of the city. It is always a good practice being discrete, not exhibiting cameras hanging all the time or handling large amounts of money in public. Keep small bills at hand. For emergencies dial 190.

4.2 Services

ACCOMODATION

The following are a few local recommended options and are provided as information only. Neither SGAC nor the 3rd SA-SGW 2017 organizing team have made agreements or take responsibility for their service.


- **FARO HOTEL**
Location: Rua Síria, 25, Jardim Oswaldo Cruz
Fone: +55 (12) 3512-9600
🏠 farohotel.com.br
- **POLO HOTEL**
Location: Rua República de Israel, 60, Jardim Oswaldo Cruz
Fone: +55 (12) 3876-5000
🏠 polohotel.com.br
- **IBIS HOTEL**
Location: Avenida Cidade Jardim, 101, Jardim Satélite
Fone: +55 (12) 2139-5950
🏠 ibishotel.com
- **NOVOTEL**
Location: Avenida Dr. Nelson d'Ávila, 2200, Vila das Acácias
Fone: +55 (12) 4009-7800
🏠 novotel.com
- **MERCURE HOTEL**
Location: Avenida Dr. Jorge Zarur, 81, Jardim Apolo
Fone: +55 (12) 3904-2300
🏠 mercure.com

CURRENCY & BANKING

There are three basic ways of doing currency trading, most of the conversion agencies accept money for the exchange, but some also accept credit cards.

- **Banks:** most banks offer currency trading services to major currencies worldwide. The main problem is the availability of cash in the moment you request the service.
- **Airports:** every international airport has a foreign currency exchange counter; these branches can also repurchase their currency when returning from their trip.
- **Agencies:** they operate like banks, they are found by all the city and they offer services of purchase of currency. It may also be necessary to make a reservation if the amount to be exchanged is high.

For more informations about São José dos Campos, visit the city hall website.



5. Organizing Team

The organizing team consists of young people from different countries of South America. The group is formed by professionals of different backgrounds who have the same passion: the space! See them here!

Event Managers



Diego Guillén Rosapérez
(Peru)



Oscar Ivan Ojeda Ramirez
(Colombia)



Josué Cardoso dos Santos
(Brazil)

Logistics Team



Maria Lívia da Costa
(Brazil)



Wagner Kim Amaral
(Brazil)

Program Team



Pedro Nogueira
(Brazil)



Nolvert William Huaman
(Peru)

Communication Team



Taís Ribeiro
(Brazil)



Denise Lino
(Brazil)

Local Team



Prof. Antônio Prado, Ph.D.
(Brazil)



Gerson Barbosa
(Brazil)



Mariany Ludgero
(Brazil)



Geraldo Magela Couto
(Brazil)

Delegate Team



Camilo Reyes Mantilla
(Colombia)



Victor Lattari
(Brazil)



Roberto Ubidia Incio
(Peru)



Omar Villa Espinoza
(Peru)



Francisco Salazar
(Ecuador)



André Amarante
(Brazil)

National Points of Contact - South America

⇒ **Brazil:** Josué Cardoso dos Santos;

⇒ **Argentina:** Santiago Enriquez;

⇒ **Bolivia:** Paola Andrea Escobari Vargas;

⇒ **Colombia:** Camilo Reyes Montilla and Oscar Ivan Ojeda Ramirez;

⇒ **Peru:** Mónica Abarca and Giancarlo Villena;

6. Sponsors and Supporters

Sponsors



Supporting Institutions



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