

# Regional Leaders' Summit - RLS

## Annual Meeting 2019 at LIT, INPE, São José dos Campos

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### Small Satellites



From 27 - 28 May, 2019, the Regional Leaders' Summit will meet at LIT, INPE, São José dos Campos.

The Regional Leaders Summit (RLS) is a multilateral political forum of seven partner regions: Bavaria (Germany), Georgia (USA), Quebec (Canada), São Paulo (Brazil), Shandong (China), Upper Austria (Austria), and Western Cape (South Africa). The RLS covers four themes: Small satellites, Aerospace, Energy, and Digitization. These themes run in parallel sessions. In this year, Bavaria, Western Cape, Quebec, and São Paulo regions will participate. Small Sat course will be on 27 May and Small Sat seminars will be on 28 May.

## Program:

May 27th - MON	
TIME	ACTIVITY
8h - 8h30	<b>Welcome Coffee Registration</b>
8h30 - 9h20	Opening
9h20 - 10h10	Small Sats course
10h10 - 10h35	<b>COFFEE-BREAK</b>
10h35 - 12h15	Small Sats course
12h15 - 14h	<b>LUNCH</b>
14h - 15h40	Small Sats course
15h40 - 16h	<b>COFFEE-BREAK</b>
16h - 17h40	Small Sats course

<b>May 28th - TUES</b>			
<b>TIME</b>	<b>TOPIC</b>	<b>SPEAKER</b>	<b>REGION</b>
8h - 8h30	TIM Satellite System Requirements	<b>Iuri Motroniuk</b>	Bavaria (Germany)
8h30 - 9h20	Ground Station Networks	<b>Alexander Kleinschrodt</b>	Bavaria (Germany)
9h20 - 10h10	ADCS Commissioning of CubeSats and an Overview on the Western Cape's Small Satellite Activities.	<b>Herman Steyn</b>	Western Cape (South Africa)
10h10 - 10h35	<b>COFFEE-BREAK</b>		
10h35 - 11h25	Small Satellite ADCS Simulations, Using EOS a ADCS Simulation Tool.	<b>Lourens Visagie</b>	Western Cape (South Africa)
11h25 - 11h50	An overview of Orbital Engineering SA Small Satellites Activities.	<b>Orbital Engineering SA.</b>	São Paulo (Brazil)
11h50 - 12h15	Validation Tests of Attitude Determination Software for Nanosatellite Embedded Systems.	<b>Luiz S. Martins-Filho</b>	São Paulo (Brazil)
12h15 - 14h	<b>LUNCH</b>		
14h - 14h25	An Overview of Visiona Space technology S.A. Small Satellites Activities and AOCS Development .	<b>Visiona Space technology S.A.</b>	São Paulo (Brazil)
14h25 - 14h50	An overview of Initiatives Related to NanoSats at INPE, for Scientific and Technological Missions and for Educational Purposes.	<b>Walter Abrahão dos Santos</b>	São Paulo (Brazil)
14h50 - 15h15	An Overview of CRON Small Satellites Activities.	<b>Otavio Santos Cupertino Durão</b>	São Paulo (Brazil)
15h15 - 15h40	An Overview of the ITA Small Satellites Activities and Space Propulsion Development Applied to Small Satellites.	<b>Luis Eduardo Vergueiro Loures da Costa</b>	São Paulo (Brazil)
15h40 - 16h	<b>COFFEE-BREAK</b>		
16h - 16h50	The Quebec Small Satellite Activities.	<b>Giovanni Beltrame</b>	Quebec (Canada)

Small Satellites Activities for the RLS:

## Small Sats Course



**Prof. Klaus Schilling (Institute of Robotics and Telematics at University Wuerzburg and President of the Research Company “Zentrum für Telematik e.V.”, Bavaria).**

Small Satellite System Design

Prof. PhD. Klaus Schilling is the lead partner for the project 'Lightweight, Strong Impact: Small Satellites for Telecommunication and Earth Observation' (see: <https://rls-smallsatellites.org/project-description/>).

## Invited Speakers

- **Iuri Motroniuk (Research Company Zentrum für Telematik e.V)**

TIM Satellite System Requirements.

- **Alexander Kleinschrodt (Research Company Zentrum für Telematik e.V)**

Ground Station Networks .

- **Herman Steyn (Department of Electronic, University of Stellenbosch)**

ADCS Commissioning of CubeSats and an Overview on the Western Cape's Small Satellite Activities.

- **Lourens Visagie (Department of Electronic, University of Stellenbosch)**

Small Satellite ADCS Simulations, Using EOS a ADCS Simulation Tool.

- **Luis Eduardo Vergueiro Loures da Costa (Technological Institute of Aeronautics – ITA)**

An Overview of the ITA Small Satellites Activities and Space Propulsion Development Applied to Small Satellites.

- **Walter Abrahão dos Santos (National Institute for Space Research - INPE)**

An overview of Initiatives Related to NanoSats at INPE, for Scientific and Technological Missions and for Educational Purposes.

- **Otavio Santos Cupertino Durão (National Institute for Space Research - INPE)**

An Overview of CRON Small Satellites Activities.

- **Orbital Engineering SA.**

An overview of Orbital Engineering SA Small Satellites Activities.

- **Luiz S. Martins-Filho (Federal University of ABC - UFABC)**

Validation Tests of Attitude Determination Software for Nanosatellite Embedded Systems.

- **Visiona Space technology S.A.**

An Overview of Visiona Space technology S.A. Small Satellites Activities and AOCS Development .

- **Giovanni Beltrame (Ecole Polytechnique de Montreal)**

The Quebec Small Satellite Activities.

For more details on RLS-Sciences, visit the site: <https://www.rls-sciences.org/>

For more details on RLS-Small Satellites, visit the site: <https://rls-smallsatellites.org/project-description/>

For more details about LIT, visit the site: <https://www.lit.inpe.br/>