



**IAC 2015**  
Jerusalem

# 66<sup>th</sup> IAC

International Astronautical Congress

## Pocket Programme

**12 - 16 October 2015**  
**Jerusalem, Israel**

*Space – The Gateway for  
Mankind's Future*



**ISA**  
Israel Space Agency

An aerial photograph of Jerusalem at sunset. The sun is low on the left horizon, casting a warm orange and red glow over the city. The Old City's walls and various buildings are visible, with the Dome of the Rock being a prominent feature in the center. The city extends into the surrounding hills.

## Welcome Message

Welcome to the 66<sup>th</sup> International Astronautical Congress in Jerusalem!

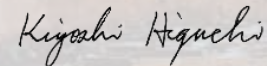
This is the second time the IAF comes to Jerusalem, a beautiful city – a promise for an inspiring event!

Our hosts for this Congress have selected a very fitting theme: Space as the Gateway for Mankind's Future. Space is synonymous of excellence, expertise, technology, development, and communications: all the key elements to prepare a better environment for mankind's lives in the future. A theme is very close to the IAF mission of creating a space-faring world cooperating for the benefit of humanity.

It is with great satisfaction that I introduce to you the result of hard work completed by the integrated teams of the International Programme Committee, the Local Organizing Committee, and the IAF Secretariat.

In this IAC 2015 Final Programme, you will find information about exciting Plenary Events, Global Networking Forum, Exhibitions and all the associated events complementing the needs of the whole space community.

In addition, an extraordinary Technical Programme is ready for you. Thanks to your participation, this year's IAC will be a real success! Enjoy your preferred time of the year connecting space people, taking advantage of the exquisite food and discovering all the technical tours and the fun nights!

A handwritten signature in black ink, reading "Kiyoshi Higuchi". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

*Kiyoshi Higuchi*

President,  
International Astronautical Federation (IAF)





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# Congress Venue

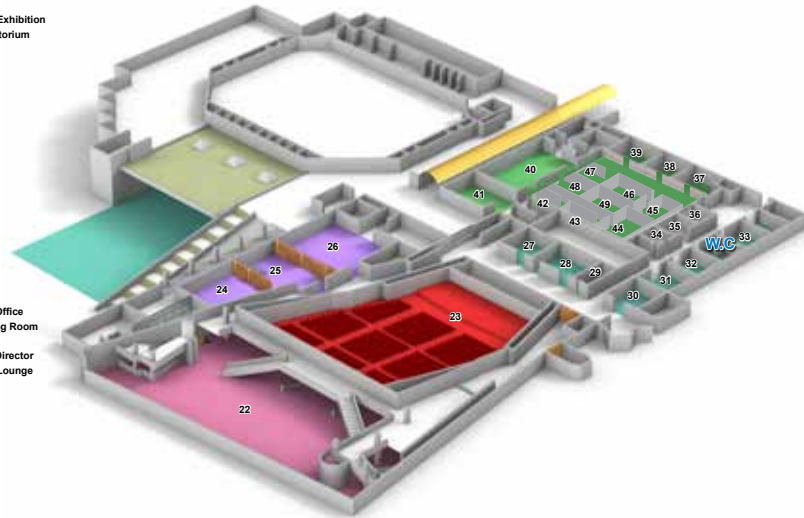
# ICC LOWER LEVEL (Level 1)

- 5. Marquise A: Entrance
- 5A. Registration
- 5B. Student Zone
- 5C. IAF Secretariat
- 6. Marquise A: Registration & Student Zone
- 1. Main Entrance Foyer & Exhibition
- 2. Entrance Lobby & Exhibition
- 3. Speakers' Preparation Room
- 4. Schwartz Hall
- 5 - 6. Eshkol 2
- 5 - 6. Eshkol 3
- 7. Eshkol 1
- 8. 92B Area
- 9. IAF Members Lounge
- 10. Teddy D Hall Press Center
- 11. Teddy A
- 12. Teddy A
- 13. Teddy B
- 14. Teddy C
- 15. Oranien 1
- 16. Oranien 2
- 17. Oranien 3-A
- 18. Oranien 3-B
- 19. Oranien 4
- 20. Pinok Hall
- 20A. Interactive Presentation Area
- 21. Exhibition Hall



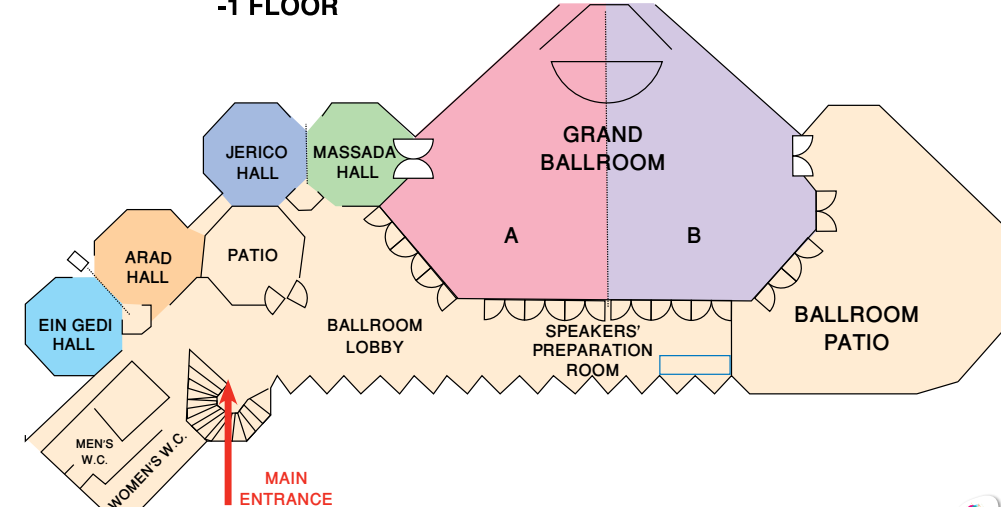
# ICC MAIN LEVEL (Level 2)

- 22. Agam Foyer & Exhibition
- 23. Ussiskhin Auditorium
- 24. Dulzin Big A
- 25. Dulzin Big B
- 26. Small Dulzin
- 27. 301
- 28. 302/303
- 29. 304
- 30. 305
- 31. 306
- 32. 307
- 33. 309
- 34. 315
- 35 - 36. 308/316
- 37. 310
- 38. 311
- 39. 312
- 40. 313
- 41. 314
- 42. IAA President
- 43. IPC CO. Chair Office
- 44. Bilateral Meeting Room
- 45. IISL President
- 46. IAF Executive Director
- 47. IISL Member's Lounge
- 48. IAA Secretariat
- 49. IAF President



# CROWNE PLAZA

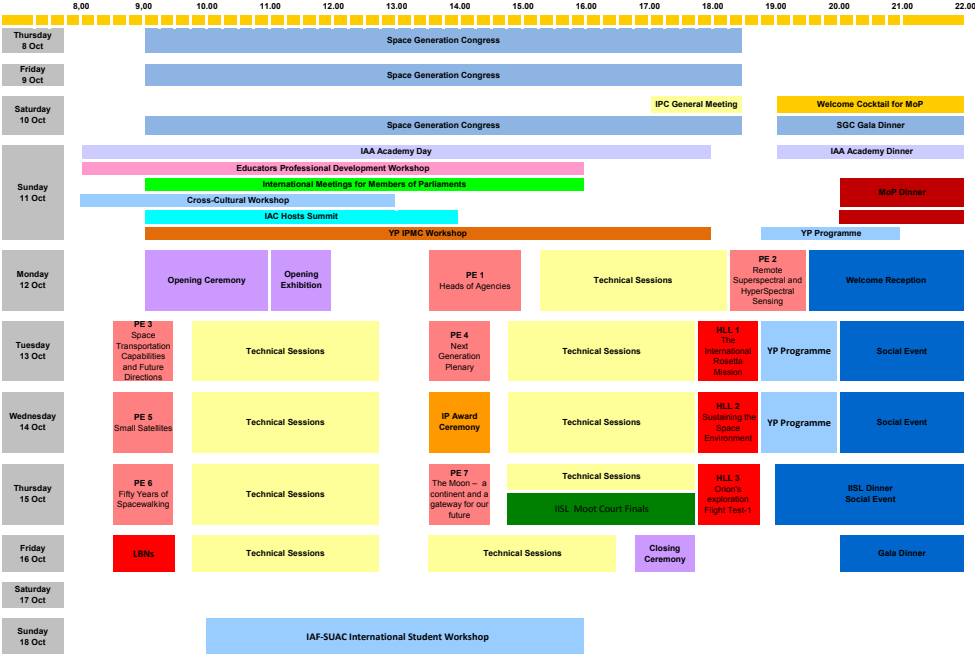
-1 FLOOR



• To Kerem Carmit Hall Please follow the directional signs at the hotel.



# Congress At-a-Glance



# Congress Schedule & Events Day by Day

## Pre-Congress Schedule

### Thursday, 8 October

Space Generation Congress (SGC) (see page 186 - Final Programme)

### Friday, 9 October

Space Generation Congress (SGC) (see page 186 - Final Programme)

### Saturday, 10 October

17:00 - 18:30 IPC General Meeting

Teddy A, ICC

Space Generation Congress (SGC) Gala Dinner (see page 186 - Final Programme)

### Sunday, 11 October

IAA Academy Day and Academy Dinner (see page 181)

Educators Professional Development Workshop (see page 180 - Final Programme)



## Main Congress Schedule

Please check the IAC 2015 Application on your Mobile Phone to get the latest updates on the Technical Programme

Monday, 12 October		
09:00 - 11:00	Opening Ceremony	Ussishkin Auditorium, ICC
11:15 - 12:15	Exhibition Opening	Exhibition Hall, ICC
13:30 - 15:00	Plenary 1: Heads of Agencies	Ussishkin Auditorium, ICC
15:00 - 15:15	Buzz Aldrin Press Conference	Oranim1, ICC
15:00 - 15:15	GNF Opening	Small Dulzin, ICC

	Cross Cultural Communications and Presentation Workshop (see page 181- Final Programme)
	IAC Hosts Summit (see page 183 - Final Programme)
	IPMC Young Professional Workshop (see page 166)
	Young Professionals Networking Events (see page 167)

15:15 -15:45	GNF – Heads of Agency Press Conference	Small Dulzin, ICC
Start time: 15:15	Technical Sessions	Room
A1.8	Biology in Space	Oranim 3-A
A2.1	Gravity and Fundamental Physics	314
A3.1	Space Exploration Overview	Schwartz Hall
A6.1	Measurements	Eshkol 2
A6.1-YPVF.5	Space Debris Young Professionals Virtual Forum	Kerem Carmit
A7.1	Space-Agencies Long-Term Views	302-303
B1.1	International Cooperation in Earth Observation Missions	Eshkol 3
B2.1	Mobile Satellite Communications and Navigation Technology	Dulzin Big B
B3.1	Governmental Human Spaceflight Programs (Overview)	Ballroom A
B4.2	Small Space Science Missions	Eshkol 1
B6.3	Mission Operations, Validation, Simulation and Training	313
C1.1	Mission Design, Operations & Optimization (1)	Teddy B
C2.1	Space Structures I - Development and Verification (Space Vehicles and Components)	Oranim 1
C3.1	Space-Based Solar Power Architectures / Space & Energy Concepts	Oranim 2





C4.1	Propulsion System (1)	Ballroom B
D1.1	Innovative and Visionary Space Systems Concepts	Oranim 4
D2.1	Launch Vehicles in Service or in Development	Teddy C
D3.1	Strategies & Architectures as the Framework for Future Building Blocks in Space Exploration and Development	312
E1.1	Ignition - Primary Space Education	Oranim 3-B
E4.1	Memoirs & organisational histories	Dulzin Big A
<b>16:30 - 17:15</b>	<b>GNF – NanoSat’s Success: Innovative Lessons for the Entire Space Community</b>	<b>Small Dulzin, ICC</b>
Start time: <b>15:15</b>	<b>Technical Session</b>	Room
D3.3	Novel Concepts and Technologies to Enable Future Building Blocks in Space Exploration and Development	312
<b>17:30 - 18:15</b>	<b>GNF – China Manned Space Program</b>	<b>Small Dulzin, ICC</b>
<b>18:15 - 19:30</b>	<b>Plenary 2: Remote Superspectral And Hyperspectral Sensing From Space (Host Plenary)</b>	<b>Ussishkin Auditorium, ICC</b>
<b>19:30 - 22:00</b>	<b>Welcome reception</b>	<b>All Exhibition Areas, ICC</b>

Tuesday, 13 October		
<b>08:30 - 09:30</b>	<b>Plenary 3: Space Transportation Capabilities and Future Directions to enable Commercial, Scientific, and Human expansion into space</b>	<b>Ussishkin Auditorium, ICC</b>
<b>09:30 - 10:45</b>	<b>GNF – Climate and Earth Observation – Challenges and Possibilities of Satellite Missions</b>	<b>Small Dulzin, ICC</b>
<b>Start time: 09:45</b>	<b>Technical Sessions</b>	
A1.2	Human Physiology in Space (1)	Oranim 3-A
A2.2	Fluid and Materials Sciences	314
A3.2A	Moon Exploration – Part 1	Schwartz Hall
A6.2	Modelling and Risk Analysis	Eshkol 2
A7.2	Scientific Motivation and Requirements for Future Space Astronomy and Solar System Science Missions	302-303
B1.2	Future Earth Observation Systems	Eshkol 3
B2.2	Joint Session on Dual Use (civil and military) Aspects of Telecommunications and GNSS	Dulzin Big B
B3.2	Commercial Human Spaceflight Programs	Ballroom A



B4.1	16th Workshop on Small Satellite Programmes at the Service of Developing Countries	Eshkol 1
C1.2	Mission Design, Operations & Optimization (2)	Teddy B
C2.2	Space Structures II - Development and Verification (Deployable and Dimensionally Stable Structures)	Oranim 1
C3.2	Wireless Power Transmission Technologies, Experiments and Demonstrations	Oranim 2
C4.2	Propulsion System (2)	Ballroom B
D2.2	Launch Services, Missions, Operations, and Facilities	Teddy C
D4.1	Innovative Concepts and Technologies	312
E1.2	Lift-Off - Secondary Space Education	Oranim 3-B
E2.1	Student Conference - Part 1	Kerem Carmit
E3.1	Regional cooperation in space: policies, governance and legal tools	313
E6.1	Case Studies and Prizes in Commercial Space	Oranim 4
E7.1	7 <sup>th</sup> Nandasiri Jasentuliyana Keynote Lecture on Space Law and Young Scholars Session	Dulzin Big A

<b>10:45 - 12:00</b>	<b>GNF – New Space Economy - The Dawn of an Era or the Next Economic Bubble?</b>	<b>Small Dulzin, ICC</b>
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<b>11:00 - 14:00</b>	<b>IISL Moot Court Semi Finals (This is a closed session)</b>	<b>Ein Gedi Hall and Masada Jericho Hall, Crowne Plaza Hotel</b>
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<b>12:15 - 13:00</b>	<b>GNF – ESA Director General Jan Woerner meets the Press</b>	<b>Small Dulzin, ICC</b>
<b>13:30 - 14:30</b>	<b>Plenary 4: Next Generation Plenary: International Space Station as the Gateway for Humankind's Future in Space and on Earth</b>	<b>Ussishkin Auditorium, ICC</b>

<b>Start time: 14:45</b>	<b>Technical Sessions</b>	
A1.3	Human Physiology in Space (2)	Oranim 3-A
A2.3	Microgravity Experiments from Sub-Orbital to Orbital Platforms	314
A3.2B	Moon Exploration – Part 2	Schwartz Hall
A4.1	SETI 1: SETI Science and Technology	302-303
A5.2	Human Exploration of Mars	Eshkol 3
A6.4	Mitigation and Standards	Eshkol 2
B2.3	Space-Based Navigation Systems and Services	Dulzin Big B
B3.3	Utilization & Exploitation of Human Spaceflight Systems	Ballroom A
B4.3	Small Satellite Operations	Eshkol 1
C1.3	Orbital Dynamics (1)	Teddy B
C2.3	Space Structures - Dynamics and Microdynamics	Oranim 1
C3.3	Advanced Space Power Technologies and Concepts	Oranim 2





C4.9	Hypersonic and Combined Cycle Propulsion	Ballroom B
D2.3	Upper Stages, Space Transfer, Entry and Landing Systems	Teddy C
D4.2	Contribution of Space Activities to Solving Global Societal Issues	312
E1.3	On Track - Undergraduate Space Education	Oranim 3-B
E2.3-YPVF.4	Student Team Competition	Kerem Carmit
E3.2	International Space Exploration Policies and Programmes	313
E6.2	Public/Private Human Access to Space - Supporting Studies	Oranim 4
E7.2	The relationship of international humanitarian law and territorial sovereignty with the legal regulation of outer space	Dulzin Big A

14:45 - 17:45	<b>GNF – Vega Small Launcher: The Best Workhorse Answer to your LEO Needs</b>	<b>Small Dulzin, ICC</b>
17:45 - 18:45	<b>Highlight Lecture 1: The International Rosetta Mission – First Historical Rendezvous and Landing on a Comet</b>	<b>Ussishkin Auditorium, ICC</b>
19:00 - 21:00	<b>Young Professional Networking Event</b>	<b>Room Teddy A, ICC</b>

### Wednesday, 14 October

07:00 - 08:30	<b>WIA-Europe Breakfast</b>	<b>Crowne Plaza Hotel, Ballroom A</b>
08:30 - 09:30	<b>Plenary 5: Small Satellites – Big Opportunities in the New Age</b>	<b>Ussishkin Auditorium, ICC</b>

09:30 - 11:45	<b>GNF – Hybrid- and Full Electric Propulsion – what is changing orbital propulsion?</b>	<b>Small Dulzin, ICC</b>
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Start time: 09:45	Technical Sessions	Room
A1.4	Medical Care for Humans in Space	Oranim 3-A
A2.4	Science Results from Ground Based Research	314
A3.3A	Mars Exploration – missions current and future	Schwartz Hall
A6.3	Hypervelocity Impacts and Protection	Eshkol 2
B1.3	Earth Observation Sensors and Technology	Eshkol 3
B2.4	Near-Earth and Interplanetary Communications	Dulzin Big B
B3.4-B6.5	Flight & Ground Operations of HSF Systems – Joint Session of the Human Spaceflight and Space Operations Symposia	Ballroom A
B4.4	Small Earth Observation Missions	Eshkol 1
C1.4	Orbital Dynamics (2)	Teddy B





C2.4	Advanced Materials and Structures for High Temperature Applications	Oranim 1
C4.3	Propulsion Technology (1)	Ballroom B
D1.2	Enabling Technologies for Space Systems	Oranim 4
D2.4	Future Space Transportation Systems	Teddy C
D3.2	Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development	312
D5.1	Safety and quality: "SUCCESS" is the goal	302-303
E1.4	In Orbit - Postgraduate Space Education	Oranim 3-B
E2.2	Student Conference - Part 2	Kerem Carmit
E3.3	The space economy: what are the socio-economic impacts?	313
E5.1	Space Architecture: technical aspects, design, engineering, concepts and mission planning	Oranim 2
E7.3	The portrayal of Space (Law) in Media and Movies	Dulzin Big A
12:00 - 12:30	<b>GNF – There are No Borders in Space: International Cooperation Will Drive the New Space Age (Keynote by LMC Chairman, President, and CEO, Marillyn Hewson)</b>	<b>Teddy A, ICC</b>
12:45 - 13:15	<b>Interactive Presentations Award Ceremony</b>	<b>Teddy A, ICC</b>

13:15 - 14:15	<b>GNF – Prospects of Human Spaceflight – Russian View</b>	<b>Small Dulzin, ICC</b>
13:15 - 14:45	<b>Interactive Session</b>	<b>Plasma Screen Area (Oranim Foyer)</b>
14:30 - 15:30	<b>GNF - How to launch a career in space?</b>	<b>Small Dulzin, ICC</b>
<b>Start time: 13:15</b>	<b>Symposia</b>	<b>Description</b>
A1.IP	SPACE LIFE SCIENCES SYMPOSIUM	Interactive Presentations
A2.IP	MICROGRAVITY SCIENCES AND PROCESSES SYMPOSIUM	Interactive Presentations
A3.IP	SPACE EXPLORATION SYMPOSIUM	Interactive Presentations
A4.IP	44 <sup>th</sup> SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) – The Next Steps	Interactive Presentations
A5.IP	HUMAN EXPLORATION OF THE SOLAR SYSTEM SYMPOSIUM	Interactive Presentations
A6.IP	SPACE DEBRIS SYMPOSIUM	Interactive Presentations
B1.IP	EARTH OBSERVATION SYMPOSIUM	Interactive Presentations
B2.IP	SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM	Interactive Presentations
B3.IP	HUMAN SPACEFLIGHT SYMPOSIUM	Interactive Presentations
B6.IP	SPACE OPERATIONS SYMPOSIUM	Interactive Presentations



C1.IP	ASTRODYNAMICS SYMPOSIUM	Interactive Presentations
C2.IP	MATERIALS AND STRUCTURES SYMPOSIUM	Interactive Presentations
C3.IP	SPACE POWER SYMPOSIUM	Interactive Presentations
C4.IP	SPACE PROPULSION SYMPOSIUM	Interactive Presentations
D1.IP	SPACE SYSTEMS SYMPOSIUM	Interactive Presentations
D2.IP	SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM	Interactive Presentations
D4.IP	13 <sup>th</sup> IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE	Interactive Presentations
D5.IP	48 <sup>th</sup> SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE ACTIVITIES	Interactive Presentations
E1.IP	SPACE EDUCATION AND OUTREACH SYMPOSIUM	Interactive Presentations
E3.IP	28 <sup>th</sup> SYMPOSIUM ON SPACE POLICY, REGULATIONS AND ECONOMICS	Interactive Presentations
E5.IP	26th IAA SYMPOSIUM ON SPACE AND SOCIETY	Interactive Presentations
E6.IP	BUSINESS INNOVATION SYMPOSIUM	Interactive Presentations
E7.IP	58 <sup>th</sup> IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Interactive Presentations

Start time: 14:45	Technical Sessions	Room
A1.5	Radiation Fields, Effects and Risks in Human Space Missions	Oranim 3-A

A2.5	Facilities and Operations of Microgravity Experiments	314
A3.3B	Mars Exploration – Science, Instruments and Technologies	Schwartz Hall
A4.2	SETI 2: SETI and Society	312
A5.1	Human Exploration of the Moon and Cislunar Space	Eshkol 3
A6.9	Modelling and Orbit Dtermination	Eshkol 2
B2.5	Advanced Technologies for Space Communications and Navigation	Dulzin Big B
B3.9-YPVF.2	Human Spaceflight Young Professional Virtual Forum	Kerem Carmit
B4.5	Access to Space for Small Satellite Missions	Eshkol 1
C1.5	Attitude Dynamics (1)	Teddy B
C2.5	Smart Materials and Adaptive Structures	Oranim 1
C4.4	Electric Propulsion	Ballroom B
D1.3	System Engineering - Methods, Processes and Tools (1)	Oranim 4
D2.5	Future Space Transportation Systems Technologies	Teddy C
D6.1	Commercial Space Flight Safety and Emerging Issues	Ballroom A
E1.5	Enabling the Future - Developing the Space Workforce	Oranim 3-B
E3.4	Assuring a Safe, Secure, and Sustainable Space Environment for Space Activities	313
E5.2	Models for Successfully Applying Space Technology Beyond Its Original Intent	Oranim 2



E6.3	New Space and New Science	302-303
E7.4	Legal Issues of Space Traffic Management	Dulzin Big A
15:45 - 17:45	<b>GNF – Rafael's Microsatellites Enhanced Capabilities Utilizing Electric Propulsion Systems</b>	<b>Small Dulzin, ICC</b>
17:45 - 18:45	<b>Highlight Lecture 2: Sustaining the Space Environment: The State of Space Situational Awareness, Conjunction Warning and Collision</b>	<b>Ussishkin Auditorium, ICC</b>

#### Thursday, 15 October

08:30 - 09:30	<b>Plenary 6: Fifty Years of Spacewalking – The Ultimate Human Space Adventure</b>	<b>Ussishkin Auditorium, ICC</b>
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Start time: 09:45	Technical Sessions	Room
A1.6	Astrobiology and Exploration	Oranim 3-A
A2.6	Microgravity Sciences Onboard the International Space Station and Beyond	314
A3.4	Small Bodies Missions and Technologies	Schwartz Hall
A6.5	Space Debris Removal Technologies	Eshkol 2
B1.4	Earth Observation Data Management Systems	Eshkol 3

B2.6	Advanced Space Communications and Navigation Systems	Dulzin Big B
B3.5	Astronaut Training, Accommodation, and Operations in Space	Ballroom A
B4.6A	Generic Technologies for Small/Micro Platforms	Eshkol 1
C1.6	Attitude Dynamics (2)	Teddy B
C2.6	Space Environmental Effects and Spacecraft Protection	Oranim 1
C4.5	Propulsion Technology (2)	Ballroom B
D1.4	Space Systems Architectures	Oranim 4
D2.6	Future Space Transportation Systems Verification and In-Flight Experimentation	Teddy C
D4.3	Space Elevator Tether and Space Mineral Resources	312
D5.2	Knowledge management and collaboration in space activities	302-303
D6.3	Enabling safe commercial spaceflight: vehicles and spaceports	Kerem Carmit
E1.6	Calling Planet Earth - Space Outreach to the General Public	Oranim 3-B
E3.5-E7.6	30th IAA/IISL Scientific-Legal Roundtable: Universities as Actors in Space	313
E4.2	Scientific & technical histories	Dulzin Big A
E5.6	Space Societies, Professional Associations and Museums	Oranim 2
10:00 - 11:00	<b>GNF – NASA Ames and Future of Space Exploration, Science, and Aeronautics</b>	<b>Small Dulzin, ICC</b>





<b>11:00 - 13:30</b>	<b>GNF – Visual Impairment and Intracranial Pressure (VIIP) – an Emerging Health Issue in Space</b>	<b>Small Dulzin, ICC</b>
<b>13:30 - 14:30</b>	<b>Plenary 7: The Moon – a Continent and a Gateway for our Future</b>	<b>Ussishkin Auditorium, ICC</b>
<b>14:30 - 18:30</b>	<b>IISL Moot Court Finals</b>	<b>The Rose and Wilfred P. Cohen Auditorium, The Hebrew University of Jerusalem</b>

<b>Start time: 14:45</b>	<b>Technical Sessions</b>	<b>Room</b>
A3.5	Solar System Exploration	Schwartz Hall
A5.3-B3.6	Human and Robotic Partnerships in Exploration - Joint session of the Human Spaceflight and Exploration Symposia	Ballroom A
A6.6	Space Debris Removal Concepts	Eshkol 2
A7.3	Technology Needs for Future Missions, Platforms	314
B1.5	Earth Observation Applications and Economic Benefits	Eshkol 3
B2.8-YPVF.3	Space Communications and Navigation Young Professionals Virtual Forum	Kerem Carmit
B4.6B	Generic Technologies for Nano/Pico Platforms	Eshkol 1
B5.2	Integrated Applications End-to-End Solutions	Dulzin Big B
B6.1	Human Spaceflight Operations	313

C1.7	Guidance, Navigation & Control (1)	Teddy B
C2.7	Space Vehicles – Mechanical/Thermal/Fluidic Systems	Oranim 1
C3.4	Small and Very Small Advanced Space Power Systems	Oranim 3-A
C4.6	New Missions Enabled by New Propulsion Technology and Systems	Ballroom B
D1.5	Training, Achievements, and Lessons Learned in Space Systems	Oranim 4
D2.7	Small Launchers: Concepts and Operations	Teddy C
D4.4	Strategies for Rapid Implementation of Interstellar Missions: Precursors and Beyond	312
D5.4	Cyber-security threats to space missions and countermeasures to address them	302-303
E1.7	New Worlds - Innovative Space Education and Outreach	Oranim 3-B
E4.3	History of Israeli contribution to astronautics	Dulzin Big A
E5.4	Contemporary Arts Practice and Outer Space: A Multi-Disciplinary Approach	Oranim 2

<b>15:00 - 15:30</b>	<b>GNF – Andrea Boese Memorial</b>	<b>Small Dulzin, ICC</b>
<b>16:45 - 17:45</b>	<b>GNF – Bloostar, the Shortcut to Orbit – Press Conference</b>	<b>Small Dulzin, ICC</b>
<b>17:45 - 18:45</b>	<b>Highlight Lecture 3: Orion's First Flight Test: Taking Human Spaceflight Beyond LEO for the Future of Human Exploration</b>	<b>Ussishkin Auditorium, ICC</b>



Friday, 3 October		
08:30 – 09:30	Late Breaking News	Ussishkin Auditorium, ICC
09:30 - 11:30	GNF – Astronauts Event	Small Dulzin, ICC
Start time: 09:45	Technical Sessions	Room
A1.7	Life Support, habitats and EVA Systems	Oranim 3-A
A3.2C	Moon Exploration – Part 3	Schwartz Hall
A6.7	Operations in Space Debris Environment, Situational Awareness	Eshkol 2
B1.6	Water resources management	Eshkol 3
B3.7	Advanced Systems, Technologies, and Innovations for Human Spaceflight	Ballroom A
B4.8	Small Spacecraft for Deep-Space Exploration	Eshkol 1
B5.1	Tools and Technology in Support of Integrated Applications	Dulzin Big B
B6.2	New Operations Concepts, Advanced Systems and Commercial Space Operations	313
C1.8	Guidance, Navigation & Control (2)	Teddy B
C2.8	Specialised Technologies, Including Nanotechnology	Oranim 1
C4.7-C3.5	Joint Session on Nuclear Propulsion and Power	Ballroom B

D1.6	System Engineering - Methods, Processes and Tools (2)	Oranim 4
D2.8-A5.4	Going To and Beyond the Earth-Moon System: Human Missions to Mars, Libration Points and NEO's	Teddy C
D3.4	Space Technology and System Management Practices and Tools	312
D5.3	Prediction and measurements of space weather conditions and impacts on space missions	302-303
E1.8	Open Space: Participatory Space Education and Outreach	Oranim 3-B
E2.4	Educational Pico and Nano Satellites	Kerem Carmit
E5.5	Space Assets and Disaster Management	Oranim 2
E7.5	Recent Developments in Space Law	Dulzin Big A
12:00 - 12:45	GNF – Northern Lights Documentary	Small Dulzin, ICC
Start time: 13:30	Technical Sessions	Room
A6.8	(joint session with Space Security Committee): Policy, Legal, Institutional and Economic Aspects of Space Debris Detection, Mitigation and Removal	Eshkol 2
B2.7	Fixed and Broadcast Communications	Dulzin Big B
B4.7	Space Systems and Architectures Featuring Cross-Platform Compatibility	Eshkol 1





C1.9	Guidance, Navigation & Control (3)	Teddy B
C2.9	Advancements in Materials Applications and Rapid Prototyping	Oranim 1
C4.8	Advanced and Combined Propulsion Systems	Ballroom B
D1.7	Hosted Payloads - Concepts, Techniques and Challenges, Missions and Applications	Oranim 4
E1.9	Space Culture	Oranim 3-B
E7.7-B3.8	Joint IAF-IISL Session on the Legal Framework for Collaborative Space Activities	Ballroom A
16:30 - 17:30	Closing Ceremony	Small Dulzin, ICC
18:00 - 22:00	Gala Dinner	Naura Restaurant, Abu Gosh

## Meeting Schedule

Time	Event	Room
Saturday, 10 October		
08:00 – 17:00	IAA Commission 1	302-303
08:00 – 17:00	IAA Commission 2	312
08:00 – 17:00	IAA Commission 3	313
08:00 – 17:00	IAA Commission 4	314
08:00 – 17:00	IAA Commission 5	Dulzin Big A
08:00 – 17:00	IAA Commission 6	Dulzin Big B
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
09:00–17:45	IAA Commission Plenary Session	Ballroom B, Crowne Plaza Hotel
09:30 – 10:30	IAF IPMC Space Agency SubCommittee	310
10:00 – 12:00	IAF Finance Committee	Ein Gedi Hall, Crowne Plaza Hotel





10:00 – 13:30	IAF Space Debris Committee	301
11:00 – 17:00	IAF IPMC Committee Meeting	310
12:30 – 14:00	IAF TAC Committee Meeting	311
14:00 – 17:30	IAF Space Exploration Committee	301
14:00 – 17:00	IAF WD YPP Committee Meeting	311
14:30 – 16:00	IPC Steering Group (1)	307
17:00 – 18:30	IPC General Meeting	Teddy A

### Sunday, 11 October

08:00 – 16:00	Educators Professional Development Workshop	312
08:00 – 18:00	IAF IPMC YP Workshop	Oranim 3-B
08:00 – 18:00	IAA Academy Day	Ballroom B, Crowne Plaza Hotel
08:00 – 18:00	IAF IPMC YP Workshop	Oranim 3-B
08:00 – 18:00	NASA Bilaterals	316 - 308
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304

08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:30 – 13:30	Cross-Cultural Workshop	310
08:30 – 13:30	Cross-Cultural Workshop- Breakout Room	311
09:00 – 12:00	IAF SEOC Committee Meeting	306
09:00 – 13:00	IAC Hosts Summit	Oranim 1
12:30 – 13:30	IAF Global Workforce Sub-committee	306
13:00—17:30	IAF ISEB Opening Day	Teddy C
13:00 – 18:00	JAXA Bilaterals	501
14:00 – 15:30	IAF EO Committee	305
14:00 – 16:00	IAF Space Transportation Committee	301
14:00 – 18:00	IAF Materials and Structure Committee	306
14:00 – 18:00	IAF Astrodynamics Committee	307
14:00 – 18:00	IAF Bureau 1 Meeting	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel
15:00 – 17:00	IAF Propulsion Committee	310
15:30 – 17:00	IAF GEOSS Committee	305
16:00 – 18:00	IAF Commercial Spaceflight Safety Committee	301
17:00 – 18:00	Press Briefing	Oranim 3-A







18:00 – 19:00	ESL/YSL Meeting	305
19:00 – 21:00	YP Networking Event	Teddy A

### Monday, 12 October

08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 18:00	CNSA Bilaterals	Hadarim Patio
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	JAXA Bilaterals	501
08:00 – 18:00	ISRO Bilaterals	502
09:00 – 11:00	Opening Ceremony	Ussiskhin Auditorium
11:00 – 13:00	IAF Space Systems Committee	310
11:00 – 12:00	CSAC Preparatory	307
11:15 – 12:15	Exhibition Opening and Tour	Agam Foyer
11:30 – 13:00	NASA-ESA meeting	305
12:00 – 13:00	Buzz Aldrin Press Conference	Oranim 1

13:00 – 13:30	Presentation of Astronauts' original space suits and new space education programme	Oranim 1
13:30 – 15:00	Plenary 1: Heads of Agencies	Ussiskhin Auditorium
14:00 – 18:00	IISL Board of Directors	301
15:00 – 15:15	GNF Opening	Small Dulzin
15:00 – 17:00	IAA SETI Permanent Committee	305
15:00 – 17:00	IAF Entrepreneurship Committee	306
15:00 – 18:00	IAF General Assembly	Teddy A
15:15 – 15:45	GNF: Heads of Agency Press Conference	Small Dulzin
16:00 – 17:00	ESA, DLR and OHB Bilateral Meeting	307
16:30 – 17:15	GNF: NanoSat's Success: Innovative lessons for the entire Space Community	Small Dulzin
17:00 – 18:00	IAF Space Economy Committee	306
17:30 – 18:15	GNF: China Manned Space Program	Small Dulzin
18:15 – 19:15	NASA Administrator Charles Bolden Meets US Students	Small Dulzin
18:15 – 19:30	Plenary 2: Remote Superspectral and Hyperspectral Sensing from Space	Ussiskhin Auditorium

### Tuesday, 13 October

08:00 – 18:00	IAF CSAC Meeting	307
08:00 – 18:00	IAF Nomination Committee Meeting	311



08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 18:00	CNSA Bilaterals	502
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:00 – 18:00	JAXA Bilaterals	501
08:30 – 09:30	Plenary 3: Space Transportation Capabilities and Future Directions to Enable Commercial, Scientific, and Human Expansion into Space	Ussiskhin Auditorium
09:00 – 10:00	CNES Bilaterals	Hadarim Patio
09:00 – 10:30	IAF Space Societies Committee	306
09:00 – 13:00	IAF Space Systems Workshop	310
09:00 – 13:00	IAF Space Operation Committee	301
09:30—10:45	GNF: Climate and Earth Observation – Challenges and Possibilities of Satellite Missions	Small Dulzin
09:30 – 11:00	SGAC Executive Council	305
10:00 – 11:30	ISRO Bilaterals	Hadarim Patio
10:45—12:00	GNF: New Space Economy – the dawn of a new era or the next economic bubble?	Small Dulzin
11:00 – 14:15	IISL Moot Court Semi-Finals	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel

11:00 – 14:15	IISL Moot Court Semi-Finals	Masada Hall+ Jericho Hall Crowne Plaza Hotel
11:30 – 12:30	CNES Bilaterals	Hadarim Patio
12:00 – 12:45	Next Generation Plenary Meeting-Lunch	306
12:15—13:00	GNF: ESA Director General Jan Woerner meets the Press	Small Dulzin
12:30 – 18:00	ISRO Bilaterals	Hadarim Patio
12:30 – 14:00	IAF GRULAC meeting	305
13:00 – 13:45	ISA & NASA Signing Ceremony	Presidential Suit Crowne Plaza Hotel
13:00 – 14:00	IAF Small Sat Committee	301
13:00 – 14:30	IAF Space Security Committee	306
13:30 – 14:30	Plenary 4: Next Generation Plenary: International Space Station as the Gateway for Humankind's Future in Space and on Earth	Ussiskhin Auditorium
14:00 – 14:45	ISA&CNES Meeting	Presidential Suit Crowne Plaza Hotel
14:00 – 18:00	ISEB Heads of Education Meeting	305
14:30 – 16:00	IAF CLIODN Meeting	301
14:45—17:45	GNF: Vega Small Launcher: the best workhorse answer to your LEO needs	Small Dulzin
15:00 – 18:00	IAF ACHA Meeting	310

16:00 – 17:00	Outer Space Treaty Meeting	301
17:00 – 18:00	IISL-Australia Meeting	301
17:45 – 18:45	High Light Lecture 1: The International Rosetta Mission – First Historical Rendezvous and Landing on a Comet	Ussiskhin Auditorium
19:00 – 21:00	YP Networking Event	Teddy A

### Wednesday, 14 October

08:00 – 18:00	IAF Nomination Committee Meeting	311
08:00 – 18:00	IADC Meeting	310
08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 11:00	CNSA Bilaterals	Hadarim Patio
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:00 – 18:00	JAXA Bilaterals	501
08:30 – 09:30	Plenary 5: Small Satellites – Big Opportunities in the New Age	Ussiskhin Auditorium
09:00 – 10:30	IAF SUAC Meeting	306

09:00 – 11:30	NASA AA for Human Exploration	Arad Hall, Crowne Plaza Hotel
09:00 – 11:30	IAF Space Museums Meeting	301
09:30 – 11:00	SGAC Advisory Board Meeting	305
09:30 – 11:45	GNF: Hybrid- and full Electric Propulsion – what is changing orbital propulsion?	Small Dulzin
09:30 – 12:30	IAF KMTC Meeting	307
10:30 – 11:30	IAF Industry Relations Committee Meeting	306
11:00 – 12:00	IAF CSAC Meeting	Ein Gedi Hall, Crowne Plaza Hotel
11:00 – 13:00	IAA Study Group 4.21 Meeting	305
11:30 – 14:30	WSWA Board Meeting	301
12:00 – 12:30	GNF: There are No Borders in Space: International Cooperation Will Drive the New Space Age	Teddy A
12:45 – 13:15	Interactive Presentations Award Ceremony	Teddy A
12:45 – 14:45	IISL General Assembly	Dulzin Big A
13:00 – 15:00	IAA Study Group 4.18	307
13:15 – 14:15	GNF: Prospects of Human Spaceflight – Russian view	Small Dulzin
14:00 – 18:00	ISEB Heads of Education Meeting	305
14:30 – 15:30	GNF: How to launch a career in space?	Small Dulzin



15:00 – 17:00	IAF HAC Meeting	301
15:00 – 17:00	IAA Study Group 3.22	307
15:45—17:45	GNF: Rafael's Microsatellites Enhanced Capabilities Utilizing Electric Propulsion Systems	Small Dulzin
16:00 – 18:00	IAF HSF Committee Meeting	306
17:45 – 18:45	High Light Lecture 2: Sustaining the Space Environment: the State of Space Situational Awareness, Conjunction Warning and Collision	Ussiskhin Auditorium
19:00 – 21:00	YP Networking Event	Teddy A

#### Thursday, 15 October

08:00 – 18:00	IAF Nomination Committee	311
08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:30 – 09:30	Plenary 6: Fifty Years of Spacewalking – The Ultimate Human Space Adventure	Ussiskhin Auditorium
08:30 – 11:30	IAF SEOC Meeting	306
09:00 – 13:00	ROOM Board Meeting	305

10:00—11:00	GNF: NASA Ames and Future of Space Exploration, Science, and Aeronautics	Small Dulzin
11:30—13:30	GNF: Visual Impairment and Intracranial Pressure (VIIP) – an emerging health issue in Space	Small Dulzin
12:30 – 14:30	IAA History Committee	306
13:00 – 14:30	IAA Acta Astronautica Editorial Board Meeting	307
13:30 – 14:30	Plenary 7: The Moon – a Continent and a Gateway for our Future	Ussiskhin Auditorium
14:00 – 18:00	IAF Bureau Meeting	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel
14:00 – 18:00	i-BEC Meeting	301
14:30 – 16:00	IPC Steering Group (2)	307
14:30 – 18:30	IISL Moot Court Finals	The Rose and Wilfred P. Cohen Auditorium, The Hebrew University of Jerusalem
15:00—15:30	GNF: Memorial Event for Andrea Boese	Small Dulzin
15:00 – 17:00	ROOM Board Meeting	305
15:00 – 17:00	IAF APRG meeting	306
16:00 – 18:00	IAF SCAN Meeting	301
16:00 – 18:00	IAA Study Group 3.23	Masada Hall, Crowne Plaza Hotel
16:45—17:45	GNF: Bloostar, the shortcut to orbit – Press Conference	Small Dulzin





17:00 – 19:00	IAF Astrodynamics Technical Committee	307
17:45 – 18:45	High Light Lecture 3: Orion's First Flight Test: Taking Human Spaceflight Beyond LEO for the Future of Human Exploration	Ussiskhin Auditorium

### Friday, 16 October

08:00 – 18:00	NASA Bilaterals	316 - 308
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:30 – 09:30	Late Breaking News	Ussiskhin Auditorium
09:00 – 13:00	ROOM Board Meeting	305
09:30 – 14:00	IAF General Assembly	Teddy A
09:30—11:30	GNF: Astronauts Event	Small Dulzin
12:00—12:45	GNF: The Northern Lights - a Magic Experience	Small Dulzin
15:00 – 16:00	IAF Bureau Meeting	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel
16:30—17:30	Closing Ceremony	Small Dulzin

## Contacts and Opening Hours

### Registration and Information Desk:

Location: Marquise A  
 Saturday 10 October, 13:00-18:00  
 Sunday 11 October, 08:00-18:00  
 Monday 12 October –  
 Thursday 15 October, 08:00-16:00  
 Friday 16 October, 08:00-13:00

### IAF Secretariat Office

Location: Marquise A  
 Friday 9 October –  
 Friday 16 October, 08:00-18:00



### IAF Members' Lounge

Location: Teddy Foyer, Level 1  
 Sunday 11 October –  
 Friday 16 October, 08:00-18:00



### IISL Members' Lounge

Location: Hadarim Patio (divided), Level 2  
 Saturday 10 October –  
 Friday 16 October, 08:00-18:00



### International Press Centre

Location: Teddy D, Level 1  
 Saturday 10 October, 13:00-20:00  
 Sunday 11 October – Friday 16 October, 07:30-20:00  
 Friday 16 October, 07:30-17:00



### LOC Secretariat Office

Location: Marquise A  
Friday 9 October –  
Friday 16 October, 08:00-18:00



### IAA Secretariat Office:

Location: Hadarim Patio (divided), Level 2  
Friday 9 October –  
Friday 16 October, 08:00-18:00



### Exhibition Hall and Internet Café:

Location: All Exhibition Areas, Levels 1 and 2  
Monday 12 October, 12:30-18:00  
Tuesday 13 October – Thursday 15 October, 09:00-18:00  
Friday 16 October, 09:00-15:00

### Speaker's Preparation Rooms

Location 1: International Convention Centre, Lower Level (Level 1)

Location 2: Crowne Plaza Hotel (Floor -1), Ballroom Foyer

Opening Hours:

Sunday 11 October, 14:00-18:00  
Monday 12 October – Thursday 15 October, 08:30-18:00  
Friday 16 October, 08:30-15:00

## Jerusalem City Guide

### GOOD TO KNOW


<b>Currency:</b>	NIS, New Israeli Sheqel, 1 € = 5 NIS
<b>Language:</b>	Hebrew and Arabic are official languages, English
<b>Time Zone:</b>	MEZ +1 (all year round)
<b>Entry:</b>	3 months with passport (valid for at least 6 months at entry)
<b>Inhabitants:</b>	approximately 800 000 in Jerusalem
<b>Location:</b>	600 - 1000m above sea, average 800m
<b>Climate:</b>	On average cooler than the rest of the country, with hot and dry summers and cool winters.

### Shabbat

What is Shabbat?

Shabbat is the Jewish day of rest. It starts at sundown on Friday and ends at sundown on Saturday evening when the new week begins. Religious Jews do not work during Shabbat and this extends to using electronic equipment, and cooking. They mark the start of the 24





hour period by lighting candles and visiting the synagogue for prayers and to sing traditional liturgical blessings, which is followed by the Shabbat Dinner, a festive family meal. On the Shabbat morning, observant Jews return to the synagogue for a morning service, and again in the evening for the Havdalah service to mark the end of Shabbat and the start of the new week.

What changes during Shabbat in Jerusalem?

In Jerusalem, Shabbat is a totally unique experience. Starting from Friday afternoon some businesses, shops and restaurants begin to close up, while non-Kosher restaurants remain open, as do a limited number of businesses in the West of the city. Public transportation (buses and light railway) do not run at all in Jerusalem during Shabbat, and services end in the hours leading up to sunset. Shared taxis and private taxis do continue to operate. Whilst most businesses are closed, Shabbat is a great time to explore Jerusalem when the city is much quieter than usual and almost no traffic on the streets. The Old City, of course, is open as usual and it is particularly interesting to see the religious Jews mark the start of Shabbat at the Western Wall on Friday evening. Some of Jerusalem's museums are open on Saturday.

Businesses tend to re-open on Saturday evening from around one hour after the end of Shabbat until extra-late so people can shop and eat before the start of the new week.

Bus services start almost instantly after the end of Shabbat, and the light railway slightly later.

### Credit Cards

Credit cards are widely accepted in Israel. Registration for the congress can be by MasterCard, Visa and American Express.

### Currency and Money Exchange

The currency in Israel is the New Israel Shekel (NIS). We recommend using the local currency although most expenses in Israel may be paid with major credit cards. Most ATMs accept all major credit cards such as Master Card, Visa, Diners, and American Express.

### Weather

The average day time temperature for October in Israel is between 15-25 degrees Celsius. Evenings get cool in Jerusalem and can be chilly. Have a light weight sweater/cardigan available.

### Electricity

Electrical equipment in Israel is 220 volt A.C., single phase, 50 cycles. Some appliances may require a plug adapter that can be purchased locally.

### Dietary

Food in the hotels and in most restaurants is kosher which means, on a practical level that meat dishes and dairy dishes are not served together.





## Tipping

Tipping is widespread and regulated in Israel. An indicative amount is 10% of the total bill. With few exceptions, no service charge is automatically added to restaurant or hotel bills. In most cases it is NOT possible to add a tip to a credit card bill and it should be added in cash.

## Health

Israel has a high standard of hygiene and medical care, comparable to any Western standard. Doctors and dentists are highly trained and hospitals are well equipped. In the event of illness, hotel staff can arrange a doctor for you or speak to any member of the organizing committee.

## Telephones

The country code for Israel is +972

## Overview of Tours

Pickup point: “HaAliya” access road to the Jerusalem ICC. Please wait next to the registration marquise

### Enchanting Tastes and Smells at the “MACHANE YEHUDA” Market

**Date:**       **October 14, 2015 (Wednesday)**

**Time:**       Pick up time: 17:30

**Cost:**        €65 pp

The “Machane Yehuda” Tour draws from the abundance of the market, allowing participants a taste of the lively atmosphere. The tour winds through the colourful streets of the market and through its history, as the story of the neighbourhood and its famed marketplace unfolds up until its modern incarnation. During the tour, you will have the chance to stop and taste some of the offerings of the most interesting stands of the market, Speak with the merchants and hear some of the fascinating and fun stories about the history of the “Machane Yehuda” community.



The tour will also include a short excursion to the nearby “Nachlaot” neighbourhood, to tell the story of the neighbourhood’s furnace and its water pits.

The tour stops for explanations and tastings at some of the following types of purveyors:

Spices, Israeli olive oil, Jerusalem-style tahini and halva, Health drinks and natural healing products, Bakeries, Chocolates and sweets stands.

## A breathtaking adventure at The Tower of David Museum

**Date:** October 15, 2015 (Thursday)

**Time:** Pick up time: 18:30

**Cost:** €45 pp

The Tower of David Museum of the History of Jerusalem is located in the medieval citadel known as the Tower of David, near the Jaffa Gate, the historic entrance to the Old City.

The walls of the Citadel serve as a stage for a night time show which is a celebration of sight and sound. Amidst the archaeological remains in the Citadel’s courtyard and to the sound of original music, the story of Jerusalem unfolds through giant breathtaking, virtual reality

images. The stones of the walls and structures fade into the scenes and the screened images envelop the viewers and whisk them off to a one-of-a-kind multi-sensory experience.

## A rich cultural experience at The Israel Museum

**Date:** October 13, 2015 (Tuesday)

**Time:** Pick up time: 18:30

**Cost:** €65 pp

The Israel Museum is the country’s largest cultural institution, comprising several wings and large collections of art, archaeological findings and Judaica. One of the major highlights of the museum—and one of the city’s more recognizable landmarks—is the distinctly shaped Shrine of the Book, which houses many ancient manuscripts including the Dead Sea Scrolls. Nearby, lending historical context to some of these priceless manuscripts, is a definitive grand model of the Second Temple and surrounding Jerusalem neighbourhoods circa 2000 years ago. The tour in the Israel Museum includes The Shrine of the Book, the Second Temple Model and The Archaeology Gallery.

In the Archaeology Wing, visitors can take stock of the many cultures which called the Land of Israel home over the centuries. The objects are organized chronologically, through seven different “chapters” beginning with prehistoric finds.

## Exhibitors in alphabetical order

Exhibitor	Booth
AEM - IAC 2016	K - 13
AIAA	I - 4
APSCO	L - 3
ASI-Italian Space Agency	K - 7
Astro- und Feinwerktechnik Adlershof GmbH	I - 3
Astroscale PTE. LTD.	K - 4
Austrospace	L - 6
Beijing Sunwise Space Technology Ltd.	K - 1
Blue Dot Solutions Sp. z o.o.	L - 12
<b>BREMEN INVEST PAVILION</b>	<b>I - 1</b>
Airbus Defence and Space GmbH	I - 1
AVIABELT Bremen e. V.	I - 1
Bremen Invest	I - 1
Center of Applied Space Technology and Microgravity (ZARM)	I - 1
DSI Informationstechnik GmbH	I - 1
Enterprise Europe Network Bremen	I - 1

Eurockot Launch Services GmbH	I - 1
HE Space Operations GmbH	I - 1
OHB SE - European Space Company	I - 1
Robotics Innovation Center, DFKI GmbH	I - 1
China HEAD Aerospace Technology Co.	K - 12
CNES	L - 9
Czech Space Office	K - 5
DLR - German Aerospace Center	J - 1
Excalibur Almaz Limited	L - 5
Fraunhofer Space Alliance	J - 3
GomSpace Aps	L - 11
<b>ICE - ITALIAN TRADE AGENCY PAVILION</b>	<b>K - 6</b>
CBL Electronics S.r.l.	K - 6
D-Orbit S.r.l.	K - 6
DTM Technologies S.r.l.	K - 6
G.A.U.S.S.	K - 6
ICE-Italian Trade Agency	K - 6
Merletti Aerospace	K - 6
Planetek Italia S.r.l.	K - 6

Sitael S.p.A.	K - 6
Space Engineering S.p.A.	K - 6
Techno System Developments S.r.l.	K - 6
Technosprings Italia S.r.l.	K - 6
Telematic Solutions S.r.l.	K - 6
Acktar, Ltd.	N - 17
Arazim Ltd.	N - 12
Ayecka Communication Systems, Ltd.	N - 5
CMI Electronic Industries Trading Ltd	N - 16
Elbit Systems Electro-Optics - Elop Ltd.	N - 3
HSL - Herzliya Science Laboratory	N - 13
IAI- Israel Aerospace Industries	N - 1
ImageSat International	N - 18
ISERD - The Israel-Europe R&D Directorate	N - 14
Israel Space Agency	N - 21
New Rocket Ltd.	N - 8
NSLComm Ltd	N - 7
Orbit CS	N - 15
Rafael Advanced Defense Systems Ltd.	N - 2

Ramon Chips, Ltd.	N - 4
Space IL	N - 19
Space Pharma R&D	N - 20
ISU - International Space University	L - 2
JAXA - Japan Aerospace Exploration Agency	K - 9
KARI - Korea Aerospace Research Institute	J - 2
Kongsberg Seatex AS	I - 2
Lockheed Martin	N - 22
Romanian Space Agency	L - 4
<b>SOUTH AFRICAN PAVILION</b>	<b>L - 8</b>
CubeSpace	L - 8
Denel Spaceteq	L - 8
F'SATI - French South African Institute of Technology	L - 8
NewSpace Systems	L - 8
SCS Aerospace Group	L - 8
The South African Council for Space Affairs	L - 8
The South African National Space Agency - SANSA	L - 8
SGAC	M - 3



SIAA - Space Industry Association  
Skolkovo Institute of Science and Technology  
Space X  
Springer  
Surrey Satellite Technology  
SYRILNKS

#### THE NL PAVILION - THE NETHERLANDS

ATG Europe  
Airbus Defence and Space Netherlands B.V.  
Hyperion Technologies B.V.  
ISIS  
Moog Bradford  
NLR - Netherlands Aerospace Centre  
NSO  
SpaceNed  
TNO  
TU Delft Space Institute  
Utwente

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#### THE UK PAVILION

Clyde Space  
QinetiQ Space nv  
RAL Space  
Semelab  
Seradata  
STAR-Dundee  
The British Interplanetary Society (BIS)  
The UK Space Agency  
Universal Space Interface Standard (USIS)  
The Robert A. and Virginia Heinlein Prize Trust  
Yuzhnoye State Design Office  
Zodiac Aerospace / Ormic Components Ltd.

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## Exhibition Area Layout





## Exhibitors by Booth No.

Booth: I - 1

**BREMEN INVEST PAVILION**

### Participating Organisations

I - 1

**Airbus Defence and Space GmbH**

**On-site contact:** Ludger Fröbel, Space Technology Innovation (TSOEI), Head of Technology Partnerships & Fundraising

**Tel:** +49(0)421 539 5815,  
**Email:** Siegfried.monser@airbus.com  
**Web:** www.airbusdefenceandspace.com

**Contact for Follow up:** Siegfried Monser

Airbus Defence and Space is a division of the Airbus Group and is the second largest space company worldwide. It employs some 38,000 employees generating revenues of approximately €14 billion per year. The company develops and engineers cutting-edge products and solutions for both institutional and commercial markets.

I - 1

**AVIABELT Bremen e. V.**

**Contact person:** Mona Ellermann

**Email:** mona.ellermann@aviabelt.de  
**Web:** www.aviabelt.de

AVIABELT Bremen e. V. is a network of dedicated companies and application-oriented research institutes in the metropolitan region of Bremen-Oldenburg. The network is organised as an association based in Bremen.



I - 1

### Bremen Invest

**Contact person:** *Andreas Gerber*

**Tel:**  
**Email:** gerber@bremen-invest.com  
**Web:**

The Bremen Invest office offers a single point of contact for international companies, entrepreneurs and institutions to find growth opportunities in Bremen, Germany and throughout Europe. If you are a company looking for business expansion in Germany, let Bremen Invest help. Bremen is the Key to Germany, and the rest of Europe. In addition to our head office you will find Bremen Invest offices in Atlanta, Izmir and Shanghai.

I - 1

### Center of Applied Space Technology and Microgravity (ZARM)

**Contact person:** *Dr.-Ing. Thorben Koenemann*

**Mobile:** +49 (0)175 227 9376  
**Email:** thorben.koenemann@zarm.uni-bremen.de,  
**Web:**

The Center of Applied Space Technology and Microgravity is a research institute at the University of Bremen focusing on the scientific investigation of phenomena under the condition of weightlessness and questions related to space technology. Its main laboratory is the Bremen Drop Tower.

I - 1

### DSI Informationstechnik GmbH

**Contact person:** *Elias Hashem*

**Email:** hashem@dsi-it.de

DSI Informationstechnik GmbH has been developing airborne and space-based designs since 1997 and currently employs 45 engineers for electronics and software development as well as project management and product assurance. The fields of activity are dedicated to the engineering and development of solutions for computers, information technologies, control systems and advanced communication systems.

I - 1

### Enterprise Europe Network Bremen

**On-site contact:** *Dr. Barbara Cembella*  
**Contact for Follow up:** *Ellen Horstmann*

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**Web:**

Enterprise Europe Network is supporting small and medium companies in seizing their business opportunities in Europe and beyond. Bremeninvest is host organization to the Enterprise Europe Network contact point Bremen, facilitating trade promotion and innovation activities of enterprises from Bremen. During IAC, Enterprise Europe Network Bremen serves as a co-organizer for the IAC 2015 B2B Matchmaking Event.

I - 1

### Eurockot Launch Services GmbH

**On-site contact:** *Peter Freeborn*

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Eurockot Launch Services GmbH is the Bremen, Germany, based joint venture of Airbus Safran Launches and Khrunichev Space Center and performs launches of climate research, remote sensing and science satellites into Low Earth Orbits (LEO) for institutional and commercial satellite operators.

I - 1

### HE Space Operations GmbH

**Contact person:** *Claudia Kessler*

**Email:** ckessler@hespace.com  
**Web:**



At HE Space, we are passionate about space and passionate about people! We specialize in personnel recruitment with an exclusive focus on the space sector. This makes us one of a kind, since no other engineering services company combines the exclusive focus on space with the international network, which we have built over 30 years.

#### I - 1 OHB SE - European Space Company

**On-site contact:** Dr. Fritz Merkle, Executive Board Member  
**Contact for Follow up:** Martin Stade

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**Web:**

Family managed and domiciled in Bremen, OHB SE (ISIN: DE0005936124, Prime Standard) is Germany's first listed space company. It employs some 2,200 employees generating total revenues of approximately € 800 million per year. Two business units offer international customers sophisticated space systems and satellite constellations.

#### I - 1 Robotics Innovation Center, DFKI GmbH

**Contact person:** Swantje Schmidt

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**Web:**

The Robotics Innovation Center (RIC), headed by Prof. Dr. Frank Kirchner, is a research department of the German Research Center for Artificial Intelligence (DFKI GmbH).

The scope of Space Robotics – one of several main application areas of the RIC – deals with the development of intelligent robots for complex extraterrestrial exploration.

#### Booth: I - 2 Kongsberg Seatex AS

**Contact person:** Stig Erik Christiansen

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Kongsberg Seatex AS is a leading international marine electronics manufacturer specializing in the development and production of precision positioning and motion sensing systems. We provide quality products and solutions for safe navigation and operations at sea in the commercial offshore, maritime, hydrographics and defence industries, also including AIS payload solutions.

#### Booth: I - 3 Astro- und Feinwerktechnik Adlershof GmbH

**On-site contact:** Stephan Roemer

Dr. Sebastian Scheiding

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Small satellite busses (up to 350 kg) and payloads/components for small satellites (1 to 400 kg) are the core business activities of the company. We are specialized in attitude control components, complete AOC-subsystems, power subsystem components, structures & mechanism and scientific & optical payloads. Additional to that we offer ground support equipment and AOCS test beds.

Booth: I - 4	<b>American Institute of Aeronautics and Astronautics (AIAA)</b>
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<b>Contact person:</b> Megan Scheidt, Managing Director, Products and Programs	<b>Tel:</b> +1.571-242-4584 <b>Email:</b> megans@aiaa.org <b>Web:</b> www.aiaa.org
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The American Institute of Aeronautics and Astronautics (AIAA) is more than 30,000 engineers and scientists from 88 countries dedicated to the global aerospace profession. AIAA convenes five yearly forums; publishes books, technical journals, and Aerospace America; hosts a collection of 140,000 technical papers; develops and maintains standards; honors and celebrates achievement; and advocates on policy issues. AIAA serves aerospace professionals around the world—who are shaping the future of aerospace—by providing the tools, insights, and collaborative exchanges to advance the state of the art in engineering and science for aviation, space, and defense. Visit [www.aiaa.org](http://www.aiaa.org).

Booth: J - 1	<b>DLR - German Aerospace Center</b>
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<b>Tel:</b> +49 2203 601 2116 <b>Fax:</b> +49 2203 601 3249 <b>Email:</b> <a href="mailto:contact-dlr@dlr.de">contact-dlr@dlr.de</a> <b>Web:</b> <a href="http://www.DLR.de">www.DLR.de</a>
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DLR is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport and security is integrated into national and international cooperative ventures. In addition to its own research, as Germany's space agency, DLR has been given responsibility by the federal government for the planning and implementation of the German space programme. DLR is also the umbrella organisation for the nation's largest project management agency.

DLR has approximately 8000 employees at 16 locations in Germany: Cologne (headquarters), Augsburg, Berlin, Bonn, Braunschweig, Bremen, Goettingen, Hamburg, Juelich, Lampoldshausen, Neustrelitz, Oberpfaffenhofen, Stade, Stuttgart, Trauen, and Weilheim. DLR also has offices in Brussels, Paris, Tokyo and Washington D.C.

Booth: J - 2	<b>KARI - Korea Aerospace Research Institute</b>
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<b>Contact person for follow-up:</b> Mr. Eui-Chan Kim	<b>Tel:</b> +82-10-8816-1017 <b>Email:</b> <a href="mailto:eckim@kari.re.kr">eckim@kari.re.kr</a> <b>Web:</b> <a href="http://www.kari.re.kr">www.kari.re.kr</a>
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KARI is contribution to the sound development of the national economy improving the quality of people's lives through the development of aerospace technology, and realizing the dream of sky and space of the Republic Korea.

Booth: J - 3	<b>Fraunhofer Space Alliance</b>
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<b>On-site and follow-up contact person:</b> Thomas Loosen – Marketing & PR	<b>Tel:</b> +49 2251 18-308 <b>Fax:</b> +49 2251 18-337 <b>Email:</b> <a href="mailto:Thomas.loosen@int.fraunhofer.de">Thomas.loosen@int.fraunhofer.de</a>
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Bringing together 15 Fraunhofer-Institutes, the Fraunhofer Space Alliance conducts applied research in the field of industrial space technology. Fraunhofer acts as systems provider, developing a wide range of top-quality components, integrating them into an overall system and delivering that system to the customer.

Booth: K - 1	<b>Beijing Sunwise Space Technology Ltd.</b>
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<b>On-site contact:</b> Mrs. Wang Hong <b>Contact for Follow up:</b> Ms. Shi Siyan	<b>Mobile:</b> +86-10-13681269557 <b>Mobile:</b> +86-10-15201216872 <b>Web:</b> <a href="http://www.sunwisespace.com">www.sunwisespace.com</a>
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Sunwise space technology Ltd. (Sunwise Space) is a wholly owned subsidiary of Beijing Institute of Control Engineering. With aerospace background, Sunwise Space adheres to integrating aerospace and commercial application. Sunwise Space, relying on advanced aerospace technology and brand influence, has established the self R&D platform in the fields of testing product R&D, industry and aerospace testing system integration, aerospace product testing, robot control and wind power. Sunwise Space – the leading enterprise in aerospace testing and control.

#### Booth: K - 2 Yuzhnoye State Design Office

Tel: 38.0562.386403  
Email: yuzhnoye.sdo@gmail.com  
Web: <http://www.yuzhnoye.com/en/home/>

Yuzhnoye SDO is a well-known and famous scientific and design organization for development of space rocketry. It creates rocket complexes, launch vehicles, spacecraft of various purposes and rocket engines. It provides commercial services of spacecraft injection. Yuzhnoye SDO develops new materials and promising technologies.

#### Booth: K - 4 Astroscale PTE. LTD.

**On-site and follow-up contact person:** Yasu Yamazaki

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ASTROSCALE is a Singapore-based private space company that was founded in 2013 with the objective of developing innovative solutions against the growing number of space debris. The company's mission is to actively contribute to the sustainable use of the space environment by crafting scalable and cost effective on-orbit technologies, and to safely remove the most threatening pieces of debris. It is also incubating technologies to collect essential data of small-size debris that cannot be tracked using existing technologies. With its global headquarter in Singapore and a brand new engineering lab in Tokyo, the company is actively preparing for its first capabilities demonstration planned for 2016

#### Booth: K - 5 Czech Space Office

**Contact person:** Michal Kunes

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Czech Space Office (CSO) is a private non-profit organization that, since its inception in 2003, has been seeking to develop space activities in the Czech Republic. CSO provides consultations and networking, promotes Czech space organizations, publishes analysis and organizes seminars. CSO also cooperates with XCOR Aerospace and offers flights with Lynx spacecraft.

#### Booth: K - 6 ICE - ITALIAN TRADE AGENCY PAVILION

**Contact person:** Massimiliano Guido – Trade Commissioner

Tel: +972 03 6918130  
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ICE-Italian Trade Agency is the Governmental organization entrusted with the promotion of trade, business opportunities and industrial cooperation between Italian and foreign companies, as well as research centers and universities. Headquartered in Rome, it operates through over 70 branch offices worldwide. It supports the internationalization of Italian firms, ensuring their presence and consolidation in foreign markets. Its activities are financed by the Italian Ministry for Economic Development and encompass services such as information on business opportunities, advice on marketing planning, promotion, multilateral cooperation and training, within the framework of the Ministry of Foreign Affairs and International Cooperation and its Diplomatic Missions.

Following an agreement signed with A.I.A.D. (Italian Industries Federation for Aerospace, Defense and Security), a dedicated Desk is now active at the Headquarters in Rome, as focal point for aerospace companies.

In addition to its participation at IAC 2015 in Jerusalem, the Italian Trade Agency will be present with Italian aerospace enterprises, at the following shows:

- AEROMART (Munich, Germany, 03/11 - 05/11 - 2015)
- EXPODEFENSA (Bogotá, Colombia, 30/11 – 02/12 - 2015)
- FIDAE (Santiago, Chile, 29/03 – 03/04 - 2016)
- AAD – AFRICA AEROSPACE AND DEFENSE (Centurion, Johannesburg, South Africa, 14/09 – 18/09 - 2016)
- IAC 2016- International Astronautical Congress (Guadalajara, Mexico, 26/09 -30/09 - 2016)

For more information visit [www.italtrade.com](http://www.italtrade.com) or email to [tecnologia@ice.it](mailto:tecnologia@ice.it)  
<https://www.facebook.com/pages/ICE-Tel-Aviv/435413449898395>

#### **Participating Organisations**

K - 6

#### **CBL Electronics S.r.l.**

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CBL Electronics offers customized technological solutions for leading companies in aerospace, avionics and defense, granting valid and continuous assistance from design to manufacturing. Our team is highly specialized in test systems development, semiconductors testing and Hardware - Software design. Intuition, innovation and reliability are the reference values in our work.

K - 6

#### **D-Orbit S.r.l.**

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D-Orbit's vision is to become the industry leader in innovative satellite platforms and space debris mitigation solutions. Our mission is to prevent the increasing concentration of uncontrolled objects in space, promoting a sustainable and profitable future for the space industry by providing a clean and safe environment for the future space missions.

D-Orbit is a European and U.S. based space technology company, with a mission to prevent the systematic increase in concentration of uncontrolled space objects, promoting a sustainable and profitable future for the Space Industry. Our innovative D3 technology enables operators to quickly and safely dispose of end-of-mission satellites and launcher stages.

K - 6

#### **DTM Technologies S.r.l.**

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**Contact person:** Andrea Malagoli – Technical Director

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DTM since 1994 offers competitive “turnkey” solutions in the design (CAD, structural, thermal, CFD) manufacture and testing of mechanical systems for ISS, satellites, launchers and Space vehicles. DTM is specialised in the design and qualification of composite mechanical systems and is also involved in the automotive and biomedical fields. Facilities include CAD and FEM software, autoclave, tools, acquisition devices, testing equipments for static and dynamic tests, thermal vacuum chamber, ISO5 clean room. DTM quality management system is EN 9100 (AS 9100) certified.

## K - 6 G.A.U.S.S.

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G.A.U.S.S. activities include design, realization and integration of microsatellites, subsystems and payloads and all the ground segment operations. The main project of the Company is called UniSat which led to the launch of 8 satellites. Recently, UniSat became a platform, thus letting G.A.U.S.S. being a small satellites launch provider.

## K - 6 Merletti Aerospace

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Merletti Aerospace. Manufacturing and assembly of components and sub-assy for aerospace industry and verticalized management of customer orders. Design and manufacturing of tools for machining of mechanical parts.

## K - 6 Planetek Italia S.r.l.

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Planetek Italia is an Italian SME with a sound experience in the design and implementation of Software for Space and Ground Systems for Earth Observation and Space Exploration missions. Planetek Italia develops software for on board payload data processing, Instrument EGSE, ground segment radar and optical data processors.

## K - 6 Sitael S.p.A.

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Sitael is able to cover all the processes needed for the design, development and production of Small Satellites for Earth observation, science and telecommunications, advanced propulsion systems for station keeping, orbit raising and planetary exploration, innovative payloads, platform and payload avionics from equipment down to complex component level.

K - 6

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Space Engineering is a leading Italian Space Industry with outstanding expertise in R&D, engineering, simulation, prototyping, integration, testing, small-scale production for Space & Ground segments. Space Engineering is part of Airbus Defence and Space, Space Systems Programs, division ENS. A reliable partner for space agencies, satellite operators and principal industries, proven over 25 years of experience, contributing to several major national and international programs.

K - 6

**Techno System Developments S.r.l.**

**Contact person:** *Francesco Monti – Marketing Manager*  
**Contact person:** *Giuseppe Capuano – Technical Director*

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**Web:** www.tsd-space.it

Techno System Developments is a private SME developing on board and ground electronic equipment for space with specific focus on real time processing and small platform applications. The main products are Electronics for Optical Payloads and Video Systems, Spacecraft Avionics, Control and Data Management Systems for Scientific Payloads & Instruments, EGSE & SCOE. TSD long track record includes flight proven applications for Satellites, Capsules, ISS, Sounding Rockets, UAV/USV, Stratospheric Balloon.

K - 6

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Technosprings is specialized in the production of high quality springs, microsprings, release systems (pin-pullers) and findings according to drawings or samples; springs made with stainless steel, carbon steel, titanium, Inconel, and shape memory. Wire diameter from 0,06 to 20 mm Production of Shape Memory Alloys springs, pin-pullers and actuators for aerospace applications. Organization and certification in according to AS/EN 9100 specifications.

K - 6

**Telematic Solutions S.r.l.****Contact person:** *Thomas Panozzo – Managing Director*

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Telematic Solutions is an Italian company specialized in EPC (Engineering, Procurement and Construction) projects, maintenance and exploitation services within the space sector, specifically in the ground segment and telemetry domains. The company has a continued and valued presence in major European space programs, and in many other projects in low current & security, fluids, TT&C at the Guyana Space Center (CSG) where the company has a permanent work force through Telematic Solutions Guyane.

#### Booth: K - 7 ASI-Italian Space Agency

**On-site and follow-up contact persons:** Fabrizio Zucchini, Stefania Arena, Donatella Marucci

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The Italian Space Agency was founded in 1988. Its purpose was to coordinate all of Italy's efforts and investments in the space sector that had begun in the 1960s. Within over twenty years' time, ASI became one of the most significant players in the world in space science, satellite technologies and the development of mobile systems for exploring the Universe. Today, ASI has a key role at the European level where Italy is the third contributor country to the European Space Agency. It also is involved at the international level. For example, ASI has a close working relationship with NASA, which has led to its participation in many of the most interesting scientific missions of recent years. One of the most fascinating projects has been the construction and activities of the International Space Station where Italian astronauts are by now at home.

#### Booth: K - 8 Springer

**Tel:** +49 (0)6221/487-0  
**Fax:** +49 (0)6221/487-8366  
**Web:** www.springer.com

Springer is a leading global publisher, providing researchers with quality content via innovative products and services. Looking to publish your research? Discover Springer's print and electronic publication services. Get high-quality review, maximum readership and rapid distribution. With Springer you are in good company.

#### Booth: K - 9 JAXA - Japan Aerospace Exploration Agency

**Contact person:** Satoki Kurokawa – a deputy manager for Planning and Outreach Group, Public Affairs Department

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In 2003, JAXA was launched through the merger of three aerospace-related institutions. Since then, we have marked numerous achievements, from rocket and satellite launches to the involvement in the ISS and space science research. In addition, we are achieving world firsts symbolized by the Epsilon Launch Vehicle and the Asteroid Explorer "Hayabusa 2." We will continue to improve people's daily lives and lead the world to prosperity through aerospace technology.

#### Booth: K - 10 Surrey Satellite Technology

**On-site and follow-up contact person:** Emma Turnbull

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Surrey Satellite Technology Limited was formed in 1985 as a spin-off University company. Its innovative approach to satellite engineering has resulted in worldwide success and to date the company has launched 47 satellites. Based in Guildford, UK, SSTL employs 500 staff and is an independent company within the Airbus Group.

Booth: K - 11	THE UK PAVILION
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*Participating Organisations*

K - 11	The British Interplanetary Society (BIS)
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**Contact person:** Suzann Parry

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The British Interplanetary Society (BIS) is Britain's leading think tank on space development. Founded in 1933, the world's longest established organisation devoted solely to supporting and promoting the exploration and use of space for the benefit of humanity, by connecting people to create, education and inspire, and advance knowledge in all aspects of astronautics.

K - 11	STAR-Dundee
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**Contact person:** Alberto Gonzalez / Steve Parkes

**Follow-up contact person:** Stuart Mills

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**Web:** https://www.star-dundee.com/

STAR-Dundee is a leading supplier of spacecraft on-board data-handling technology, delivering a comprehensive range of SpaceWire and SpaceFibre test and development equipment, chip designs and IP cores to the international aerospace industry. SpaceWire is the de facto standard for spacecraft on-board data handling applications; SpaceFibre is a new, multi-Gbits/s technology.

K - 11	Seradata
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**Contact person:** Tim Fuller

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Seradata produces SpaceTrak3, a newly-released version of the renowned online satellite and launch database which is available via annual subscription. SpaceTrak3 is used by space agencies, manufacturers, operators and insurers worldwide. Seradata, with Commercial Space Technologies, also publishes the World Launch Review which is available as an annual printed volume.

K - 11	The UK Space Agency
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**On-site contact person:** Laura Bocarro

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The UK Space Agency is at the heart of UK efforts to explore and exploit space, space-based applications and technology and support our academic and industrial communities. We lead the UK's civil space programme to win sustainable economic growth, secure new scientific knowledge and provide benefits to all citizens

K - 11

**Semelab****Contact person:** Rob Coleman**Mobile:** +44 7836 501749**Email:** Robert.coleman@semelab-tt.com

Founded in 1974 Semelab is a 100% subsidiary company of TTe PLC.

Semelab undertake full design of semiconductors manufacture and environmental test operating via our class 10,000 and 100,000 clean rooms.

Semelab having operated in the Space market for over 25 years is now regarded as one of Europe's leading semiconductor manufacturers.

K - 11

**Clyde Space****Contact person:** Jenni Doonan – Head of Business Development**Tel:** +44 7973419989**Email:****Web:** www.clyde.space

Celebrating our 10th anniversary Clyde Space stands as a world-leader in the CubeSat sector, with expertise ranging from bespoke & Off-The-Shelf subsystems for SmallSats and CubeSats, to complete Nanosatellite mission design and spacecraft integration: throughout 2015 and 2016 over thirty CubeSats will be constructed at our headquarters in Glasgow, UK.

K - 11

**Universal Space Interface Standard (USIS)****Contact person:** Mark Hempell**Tel:** +44 (0) 7973 228889**Email:** mark@hempellastro.com

he USIS Association is an organisation develop and control a Universal Space Interface Standard (USIS) that can undertake all the system to system connection roles for both human and robotic spacecraft. The Association is planned to be owned by corporate bodies who would be stakeholders in the standard.

K - 11

**RAL Space****Contact person:** Peter Truss**Tel:** +44(0) 7584 467332**Email:** peter.truss@stfc.ac.uk**Web:**

RAL Space, is based at the Science and Technology Facilities Council's Rutherford Appleton Laboratory. RAL Space work alongside the UK Space Agency and undertake world-leading space research and technology development, provide space test and ground-based facilities, design and build instruments, analyse and process data and operate ground-station facilities.

K - 11

**QinetiQ Space nv****On-site and follow-up contact person:** Frank Preud'homme**Tel:** +32 (0)3 250 14 14**Email:** info@QinetiQ.be**Web:** www.QinetiQ.be

QINETIQ Space, the leading provider of Small space Systems, has more than 30 years of space record in developing complex space systems. We provide advanced small satellites, scientific instruments and facilities for microgravity research, advanced subsystems such as on-board computers, docking system, electrical propulsion and ground operations.

Booth: K - 12

**China HEAD Aerospace Technology Co.****Contact person:** Roger Hsu**Tel:** +86 10 8289 0174 ext. 8017**Email:** roger@head-aerospace.com**Web:** http://www.cgwic.com/

China HEAD Aerospace Technology Co. (HEAD) is the leading space company engaged in promote the international cooperation between China and worldwide.

The core businesses of HEAD are space products import, exports of Chinese Space Products, Technology Cooperation, we also develop our micro satellites and so on.

Many years of operation in space area, we know the best way for space companies outside China to enter local market. HEAD has established a business bridge proved to be effective, which enable us to be a shortcut to access China space market, a surprising company you can find to support procuring Chinese space products and services for your space missions, a reliable partner of your business development with China.

Booth: K - 13

AEM - IAC 2016

Web: [www.aem.gob.mx](http://www.aem.gob.mx)

The Mexican Space Agency (AEM) is a public decentralized organism, with legal personality, own budget, with technical and management autonomy in order to fulfill its attributions, objectives and goals. It is sectorized and coordinated by the Ministry of Communications and Transports (SCT).

To transform Mexico into a country with scientific activities and technological developments of international-class, both focused in the attention of social needs; articulating industrialization programs, advanced technologies and services that contribute to increase the country competitiveness. Additional information about AEM can be obtained by visiting the company website at [www.aem.gob.mx](http://www.aem.gob.mx)

Booth: L - 1

Syrilinks

On-site contacts: Miguel Fernandez & Gwenaél Guillois

Tel: 06-86-56-00-68  
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Syrilinks is an advanced and cost-effective Radio-communication manufacturer, for small Satellites (Mini, Micro, Cube/Nano) with 20 years experience. Syrilinks offers High Data Rate transmitters, TT&C and ISL transponders, GNSS receivers, OCXO, focused on reliability, low consumption, and miniaturization.

A pioneer in qualified active COTS use, more than 50 Flight Models that have cumulated more than 190 years in orbit, with 100% reliability. Some well-known missions and platforms: Rosetta, Deep- Impact, Myriade series (CNES-French Space Agency), Proba-V (ESA-European Space Agency).

Our portfolio is mainly focused on 3 product lines :

- **Mini Satellite** (ESA Class 3, NASA Level II), for missions lasting **7-10 years in orbit**. (ECSS components)
- **Microsatellite**, for missions up to **5 years in orbit**.
- **Cube/Nanosatellite**, for missions up to **2 years in orbit**. Ultra miniature and High End Transmitters & Transceivers.

Micro & Cube/Nanosatellite product line are mainly based on mastery of COTS, and stressing tests on Qualified Models.

Booth: L - 2

ISU - International Space University

On-site and follow-up contact:  
Ms Geraldine Moser

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Email: [isu-externalrelations@isunet.edu](mailto:isu-externalrelations@isunet.edu)  
Web: [www.isunet.edu](http://www.isunet.edu)

The International Space University, founded in 1987 is the world's premier international space education institution. ISU offers the Master of Space Studies program at its Central Campus in Strasbourg. Since 1988, ISU has conducted the nine-week Space Studies Program at different host institutions. Since its founding, more than 4,000 students from over 100 countries have completed ISU programs. [www.isunet.edu](http://www.isunet.edu)

Booth: L - 3

APSCO

On-site and follow-up contact:  
Ms. GAO Yoyo – Secretary of External Relations and Legal Affairs

Tel: 86 10 63702677 ext.610  
Mobile: 86 13801215918  
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The Asia-Pacific Space Cooperation Organization (APSCO), as a Regional Organization for inter-governmental cooperation aims to enhance the multilateral cooperation in space science, space technology, and its applications; benefits to sustainable development and economic aspects of Member States with peaceful uses of outer space.

**Booth: L - 4**      **Romanian Space Agency**

**Contact person:** Oana Sandu – ROSA Communication and PR Officer      **Web:**      [www.rosa.ro](http://www.rosa.ro)

Established in 1991, the Romanian Space Agency (ROSA) coordinates Romania's national and international space activities and represents the Government in international space cooperation programmes. ROSA coordinates the National Space Program and its implementation through space research and applications programs. The Agency supports Romania's participation to ESA programmes, as ESA's 19<sup>th</sup> Member State.

**Booth: L - 5**      **The Robert A. and Virginia Heinlein Prize Trust**

**Web:**      <http://www.heinleinprize.com>

The Heinlein Prize® honors the memory of Robert A. Heinlein™, renowned American author. The purpose of the Heinlein Prize is to encourage and reward progress in commercial space activities that advances Robert and his wife Virginia's dream of humanity's future in space. Efforts include: the Heinlein Prize for Accomplishments in Commercial Space Activities, the Microgravity Research Competition, the Heinlein Commercial Space Activity Prize, the "Flight Into the Future" international contests, the Have Space Suit — Will Travel educational program, and the online Heinlein Archives.

**L - 5**

**Excalibur Almaz Limited**

**On-site contact person:** Gilly Tsuker

**Mobile:**      054-3223004  
**Tel:**      1-713-861-1960  
**Email:**      [anat@excaliburalmaz.com](mailto:anat@excaliburalmaz.com)  
**Web:**      <http://excaliburalmaz.com> / [heinleinprize.com](http://heinleinprize.com)

Excalibur Almaz Limited (EA) is an international commercial space transportation company based in the Isle of Man. Its goal is the affordable and reliable transportation of humans and cargo to Low Earth Orbit, libration point, the Moon and beyond.

**Booth: L - 6**

**Austrospace**

**On-site and follow-up contact:**  
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**Email:**      [max.kowatsch@ruag.com](mailto:max.kowatsch@ruag.com)  
**Email:**      [hans.m.steiner@siemens.com](mailto:hans.m.steiner@siemens.com)

AUSTROSPACE, the association of Austrian space industries and research institutions, is a non-profit organization focusing on:

- Comprehensive information about Austrian space activities
- Representation of common interests of Austrian suppliers and users of space technologies vis-à-vis Austrian authorities and international organizations



Booth: L - 7	Space X
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**On-site and follow-up contact person:** Carissa Bailey – Conferences & Events Associate

**Tel:** (+1) 310 970 3658  
**Mobile:** 424-236-0155  
**Email:** carissa.bailey@spacex.com  
**Web:** www.spacex.com

SpaceX designs, manufactures, and launches the world's most advanced rockets and spacecraft. The company was founded in 2002 by Elon Musk to revolutionize space transportation, with the ultimate goal of enabling people to live on other planets. Today, SpaceX is advancing the boundaries of space technology through its Falcon launch vehicles and Dragon spacecraft.

Booth: L - 8	SOUTH AFRICAN PAVILION
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**Participating Organisations**

L - 8	CubeSpace
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**Tel:**  
**Email:**  
**Web:**

CubeSpace is a South African venture that provides nano-satellite components and services to the international market. Our area of focus is the attitude determination and control subsystem (ADCS) of a satellite. Our mission is to provide modular ADCS components with class-leading performance that integrate seamlessly into any CubeSat. We provide a personalised service through which we customise solutions to fit our clients' specific ADCS needs.

L - 8	Denel Spaceteq
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**Tel:**  
**Email:**  
**Web:**

Spaceteq, a business unit in Denel Dynamics since July 2013 is using the intellectual property from DST, the ex-Sunspace people, and the heritage from work previously done by Houwteq, as a solid foundation on which to develop new generation satellites for the South African National Space Agency, SANSA and International Clients.

L - 8	F'SATI - French South African Institute of Technology
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**Email:** VanZyll@cput.ac.za  
**Web:** <http://www.cput.ac.za/blogs/fsati/>

F'SATI (French South African Institute of Technology) is a French South African graduate institute for teaching, research and development, located in South Africa, that contributes to the creation of knowledge and transfer of technology in South Africa.

L - 8	NewSpace Systems
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**Tel:**  
**Email:**  
**Web:**

A South African company, NewSpace Systems specialises in the development and supply of small satellite components. Current components on offer include; Reaction Wheel, Fine Sun Sensor, Torque Rods, GPS Receiver, and a Magnetometer. Currently under development is a Stellar Gyro and a Patch Antenna. Additionally, NewSpace is also the African representative for the wider SSBV product offering.



L - 8

**SCS Aerospace Group**

**Email:** leehandi@scs-space.com  
**Web:** http://scshgroup.com/

Founded and directed by experienced space professionals, SCS Aerospace Group is a South African entity that comprises of eight subsidiary companies. The satellite engineering function supports the development and manufacturing of high performance satellites and ground stations, with functions including processing chains and data distribution systems. The applications team consists of regulatory, geospatial, telecoms and socioeconomic development specialists to offer our clients a complete service package in support of satellite programmes and other ICT infrastructure. Underlying all of this, the Space Engineering Academy provides training that spans space engineering (missions, satellites, payloads and components) to commercial GIS-applications and technological applications for social development.

L - 8

**The South African Council for Space Affairs**

**Tel:**  
**Email:**  
**Web:**

The Space Affairs Act No 84 of 1993 provides the legal framework for matters pertaining to outer space in South Africa. The South African Council for Space Affairs is established under the authority of the Minister of Trade and Industry to exercise regulatory functions and advise the Minister on all space-related matters.

L - 8

**The South African National Space Agency - SANSA**

**Email:** vmaharaj@sansa.org.za  
**Web:** http://www.sansa.org.za/

The South African National Space Agency provides for the promotion and use of space and cooperation in space- related activities, foster research in space science, advance scientific engineering through human capital and support the creation of an environment conducive to industrial development in space technologies within the framework of national government policy. The intent is to converge and optimise resources and maximise the benefits of space services and applications to society.

Booth: L - 9

**CNES****On-site contact person:** *Philippe Collot*

**Tel:** +33680120104  
**Email:** philippe.collot@cnes.fr

As a Public establishment, the CNES proposes France's space policy to the public authorities and implements it within five key strategic areas : Ariane, the Sciences, Observation, Telecommunications and Defence.

Etablissement public, le CNES propose aux pouvoirs publics la politique spatiale de la France et la met en oeuvre, dans cinq grands domaines stratégiques : Ariane, les Sciences, l'Observation, les Télécommunications et la Défense.

Booth: L - 10

**THE NL PAVILION - THE NETHERLANDS****Participating Organisations**

L - 10

**ATG Europe****Contact person:** *Michiel Vullings*

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**Email:** michiel.vullings@aoes.com  
**Web:** www.atg-europe.com

ATG Projects provides high-end mechanical engineering services to high-tech industries. We are involved in R&D programs focusing on composites and their application in the aerospace industry. By combining a research level expertise with a down-to-earth problem solving approach, we offer innovative solutions to complex issues on time, within budget.

#### L - 10 Airbus Defence and Space Netherlands B.V.

**Contact person:** Hella van Leeuwen

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Airbus Defence and Space Netherlands B.V. is supplier of high-tech products and services for the international aerospace industry. Since its founding in 1968, the company has build-up expertise in space technology in areas such as Earth observation, telecommunications and science. The portfolio includes solar arrays, launcher structures and instruments & systems.

#### L - 10 Hyperion Technologies B.V.

**Contact person:** Bert Monna

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**Web:** www.hyperiontechnologies.nl

Hyperion Technologies develops best-in-class nano-satellite components, enabling satellite builders to construct next generation CubeSats and small satellites. The components of Hyperion Technologies are small, use little power due to their very high efficiency and are robust. One of the assets offered by Hyperion's products over competing products is an increase in expected lifetime, as all products are designed and verified to be radiation tolerant. This gives the highest component lifetime and gives satellite builders an increased level of confidence in their mission.

The product portfolio of Hyperion Technologies includes amongst others star trackers and highly integrated attitude determination and control systems. Hyperion also offers custom design services for satellite components, and testing (thermal vacuum, vibration and radiation), in cooperation with our partners. One of the achievements of Hyperion Technologies is an interface and data acquisition unit, currently operating on the ISS.

#### L - 10 ISIS – Innovative Solutions In Space BV

**Contact person:** Jeroen Rotteveel

**Tel:** +31152569018  
**Email:** sales@isispace.nl  
**Web:** www.isispace.nl  
 www.isilaunch.com  
 www.cubesatshop.com

ISIS – Innovative Solutions In Space is a vertically integrated small satellite company from Delft with 45 engineers. The company is focused on satellites in the range of 1 – 20 kilograms and provides R&D services, products and subsystems, launch services, satellite platforms and turn-key solutions to a broad range of customers.

#### L - 10 Moog Bradford

**Contact person:** P. van Put

**Tel:** +31(0)165 305161  
**Web:** www.moog.com/space

Moog Bradford is a high-tech European developer and manufacturer of satellite attitude and orbit control subsystems, propulsion and thermal subsystems and components. The activities are organized in product lines; each of which ranks top positions (first or second) within the European supplier field.

L - 10

**NLR - Netherlands Aerospace Centre****Contact person:** *Peter Dieleman*

**Tel:** +31 613156346  
**Email:** dieleman@nlr.nl  
**Web:** www.nlr.nl

NLR, the Netherlands Aerospace Centre serves the space sector with capabilities that include design of satellites and development of heat transfer systems. NLR is specialist in the field of earth observation and navigation. In partnership with ESA, NLR is contributing to the development of European satellite-navigation system.

L - 10

**NSO****Contact person:** *J. Wamsteker*

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**Web:** www.spaceoffice.nl

The Netherlands Space Office acts as the Dutch agency for space affairs. The Netherlands Space Office (NSO) was established by the Dutch government in order to develop the Netherlands' space programme and to bring that programme to action. The NSO is the face of the Dutch space community for international space organisations like ESA, NASA and JAXA as well as the central point of contact for the space community within the Netherlands.

L - 10

**SpaceNed****Contact person:** *Jeroen Rotteveel*

**Email:** info@spacened.nl  
**Web:** www.spacened.nl

SpaceNed is the Association of Space companies in The Netherlands, rebranded from NISO in 2009. The objective of SpaceNed is to strengthen the position of its members in the international space market. Members cover Industry, SME, research institutes and universities, active in both the upstream and the downstream space markets.

L - 10

**TNO****Contact person:** *Dr. Henri Werij*

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**Email:** henri.werij@tno.nl  
**Web:** www.tno.nl/space

TNO has been active in the field of advanced space instruments for over 50 years, developing instruments for earth observation (optical, radar) and astronomy. Examples include the development of instruments for measuring the ozone layer and air quality (SCIAMACHY, OMI and TROPOMI) and instrumentation for space telescopes (HIPPARCOS, ISO and GAIA).

L - 10

**TU Delft Space Institute****Contact person:** *Mariëlle Hoefakker*

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The TU Delft Space Institute bundles and creates expertise on Space for local, regional and global impact on research, education and valorization. There is special attention for new technologies that enable extreme miniaturization and demonstrating them in Space. The institute has three focal themes: Sensing from Space, Distributed Space Systems and Space Robotics.

L - 10	University of Twente
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	<b>Email:</b> m.j.bentum@utwente.nl
	<b>Web:</b> www.utwente.nl

The University of Twente is a young and enterprising university that prepares young people for the future. We accomplish this through innovative, attractive and future-focused education and through fulfilling a global function in technological and social research. 3300 researchers and professionals work on pioneering research, relevant innovations and inspiring education for more than 9000 students.

Booth: L - 11	GomSpace Aps
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<b>On-site and follow-up contact person:</b> Annette Marquart	<b>Tel:</b> +45 23280689
	<b>Email:</b> annette@gomspace.com
	<b>Web:</b> www.gomspace.com

At GomSpace, we provide an extensive portfolio of off the shelf subsystems and software components for nanosatellites, and we provide turnkey nanosatellite projects to customers.

We export space hardware to customers in more than 45 countries and our customers range from technical universities, ambitious science groups, national space agencies, and commercial businesses, to military and national authorities.

Booth: L - 12	Blue Dot Solutions Sp. z o.o. (Space Sector Poland)
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<b>On-site contact person:</b> Michał Moroz	<b>Tel:</b> +48 601 878 252
<b>Contact person:</b> Maciej Mickiewicz	<b>Email:</b> michal.moroz@bluedotsolutions.eu
	<b>Tel:</b> +48 502 173 888
	<b>Email:</b> maciej.mickiewicz@bluedotsolutions.eu
	<b>Web:</b> www.spacesector.pl

The booth presents several leading Polish companies (i.e. Blue Dot Solutions and SpaceForest) active in space and space-related sectors, such as IT, electronics or automation. Poland joined the EU in 2004 and became the 20th ESA member state in 2012. Right now the Polish space sector consists of c.a. 100 entities.

Booth: L - 13	Zodiac Aerospace / Ormic Components Ltd.
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<b>Contact person:</b> Alexandre Thily	<b>Tel:</b> +33630482523
	<b>Email:</b> alexandre.thily@zodiacaerospace.com
	<b>Web:</b> www.zodiacaerospace.com

Zodiac Data Systems a high technology company that designs, manufactures and supplies a broad range of products and solutions for airborne & ground telemetry, mission video and flight test recorders, satellite command control, data collection from observation satellites and products and solutions for satellite communications QoS monitoring.

L - 13

**Ormic Components Ltd.****Contact person:** Ofer Kleiner

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**Tel:** +972-54-5239105  
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**Tel:** +972-3-7657371  
**Web:** www.ormic.co.il

Established in 1997 in Tel-Aviv, Israel, Ormic offers End-to-End Inovative solutions utilizing advanced technologies & systems:

- Ground Systems for Space: TT&C, Remote Sensing, Monitoring
- Airborne & Ground Telemetry Solutions
- Mission Critical Data: Recorders, Acquisition modules
- Antennas, Radomes & Reflectors
- High Power Amplifiers
- RF to Fiber-Optic Links
- Thermal Management Solutions for Payloads & Electronic Systems
- Radar Frond-End
- RF & Microwave Components and Sub-Systems: Frequency Converters, Filters, Switches, Attenuators.

Booth: **M - 1****SIAA - Space Industry Association**

**On-site and follow-up contact person:** Brett Biddington – Chief  
 Executive for IAC 2017

**Mobile:** +61 401 890 368  
**Email:** bbidding@tpg.com.au  
**Web:** <http://www.spaceindustry.com.au>  
<http://www.iac2017.org/>

The Space Industry Association of Australia (SIAA) is a peak body representing companies, governments, research institutes and universities. We are committed to a unified national space program that benefits the economy and enhances international partnerships. The SIAA will host the 68<sup>th</sup> IAC in Adelaide South Australia from 25--29 September 2017.

Booth: **M - 2****Skolkovo Institute of Science and Technology****Contact person:** Tatyana Boldyreva

**Email:** T.Boldyreva@skoltech.ru  
**Web:** <http://www.skoltech.ru/en>

We offer an MIT-designed hands-on experience in brand-new facilities with world-class professors — all in English, just outside of Moscow, with plentiful international exchange opportunities — all leading toward one goal: preparing our students and graduates to impact the world through scientific discovery and technological innovation.

Applications to join our growing community as an MSc student are being accepted for the following interdisciplinary programs:

- Biomedical Science and Technology
- Information Science and Technology
- Energy Science and Technology
- Space Science and Technology
- Product Design and Advanced Manufacturing

Booth: **M - 3****SGAC**

**On-site contact person:** Yevgeny Tsodikovich  
**Executive Director:** Minoo Rathnasabapathy

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The Space Generation Advisory Council is a global non-governmental, non-profit organization and network which aims to represent university students and young space professionals to the United Nations, space agencies, industry, and academia

**Booth: N ISRAEL PAVILION**

**Participating Organisations**

**N - 1 IAI- Israel Aerospace Industries**

**Tel:** +972 (3) 9358295  
**Email:** [corpmkg@iai.co.il](mailto:corpmkg@iai.co.il)  
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IAI is a globally recognized leader in development and production of commercial and military aerospace and defense systems. IAI provides world leading unique solutions for a broad spectrum of needs in space, air, land, sea, cyber and homeland defense. With 60 years of experience IAI exports its products to over 90 countries and has over 30 subsidiaries worldwide.

IAI's Defense and Commercial Products & Services: services include: the development, manufacture, overhaul, upgrading, repair and maintenance of aircraft and aerospace equipment, electronic systems, avionics suites, advanced radars, tactical weaponry and law enforcement systems, training and simulation systems, network and situational awareness systems.

**N - 2 Rafael Advanced Defense Systems Ltd.**

**Tel:** +972-4-879-4444  
**Email:** [intl-mkt@rafael.co.il](mailto:intl-mkt@rafael.co.il)  
**Web:** <http://www.rafael.co.il/>

RAFAEL – Advanced Defense Systems Ltd. is a member of the IAF (International Astronautical Federation).

Rafael develops and manufactures advanced defense systems for the Israeli Defense Forces and the defense establishment, as well as international customers around the world. The company offers its customers a diversified array of innovative solutions at the leading edge of global technology.

Rafael's space activities are focused on Space Propulsion Solutions, Micro-Satellite Systems, Advanced light Weight Composite Space Structures, and MEMS Technologies.

**N - 3 Elbit Systems Electro-Optics - Elop Ltd.**

**Contact person:** *Ilan Porat – Head of Space directorate*  
**Tel:** 0549993813  
**Email:** [ilan.porat@elbitsystems.com](mailto:ilan.porat@elbitsystems.com)  
**Web:**

Elbit Systems – ISTAR Division (Formally Elop) is a globally recognized leader in development and production of complex space borne electro-optic observation systems. Elbit Systems invests heavily in advanced research, concentrating on space telescopes and space cameras, in different wavelengths, for military, government and civilian space applications. Elbit Systems' products high resolution in the compact, cost effective packages.

For three decades, Elbit Systems – ISTAR Division has been engaged in the development, manufacture and testing of advanced EO systems for a variety of space applications including:

- Research space telescopes
- Space cameras, including EROS A, EROS B, MSC, Neptune, Jupiter, Venus and Ofeq Cameras
- Hyperspectral systems



N - 4

**Ramon Chips, Ltd.**

**Tel:** +972-72-221-6876  
**Email:** info@ramon-chips.com  
**Web:** http://www.ramon-chips.com/

Ramon Chips makes radiation-hardened high-performance computers for satellites and spacecrafts: An image compression asic, a dual core microprocessor with spacewire and other interfaces (marketed globally by Cobham Gaisler) and a 64-core DSP providing 40 GFLOPS, 76GMAC/sec and 120 Gbit/sec over 12 SpaceFibre links.

N - 5

**Ayecka Communication Systems, Ltd.**

**On-site and follow-up contact person:** Baruch Kagan - CTO

**Tel:** +972 546 760 632  
**Email:** baruchk@ayecka.com  
**Web:** www.ayecka.com

Addressing the consumer market Ayecka Communication Systems Ltd. is leading the next generation of satellite communication. The Smart LNB - The most cost effective platform for Interactive TV, M2M and IoT applications.

The CG-VSAT - The first consumer grade VSAT with cost reaching 99\$ per terminal (including antenna!). Based on the RCS2 standard, the CG-VSAT offers DTH operators a clear path to triple play of TV, Internet and Voice.

Ayecka's RFModem® is the technology behind the revolution, integrating the feed, filters, LNB, BUC and digital parts into a single low cost platform. Ayecka offers its RFModem® as a platform for implementing applications. Ayecka's RFModem® is also offered in combination with flat antenna for low profile installations and SOTM applications.

Ayecka offers a full range of solutions for IP over DVB-S2. IP receiver (SR1), Modulator and encapsulator (ST1), SCPC and Managed SCPC modem (SM1), all supporting GSE encapsulation, AUPC, ACM, Pre-Distortion and more.

Ayecka is your partner for Satcom – HW, SW, RF and system design and implementation. Ayecka's experience and proved capabilities is offered in design services as well as in professional services.

N - 7

**NSLComm Ltd**

**On-Site contact person:** Daniel Rockberger

**Tel:** 972-52-5095666  
**Email:** daniel@nslcomm.com  
**Web:** www.nslcomm.com

NSLComm Ltd, will revolutionize satellite telecommunications by increasing bandwidth by a factor of ten and more and introducing real time Antenna shaping. NSLComm provides satellite manufacturers with unprecedented expandable Antennas for satellite telecommunications. NSLComm can provide light weight expandable antennas with optimization that are compact when stowed in the satellite, benefits include high bandwidth for faster internet, HDTV and in-flight adaptive connectivity.

N - 8

**New Rocket Ltd.**

**Contact person:** Moti

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**Web:** http://www.newrocket.co.il/

New Rocket is developing advanced, environmentally friendly ("Green Propulsion"), rocket engines based on innovative gel-propellant technology. New Rocket gel-propellant rocket engines are combining the best of both solid and liquid rockets – they are safe and simple to use while featuring high performance and controllability.

New Rocket is aiming high – To become a world leader in Green Propulsion rocket systems for the Space and Aviation markets.

N - 12

**Arazim Ltd.****Contact person:** Mr Sason Noama – CEO

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**Web:** www.arazim.co.il

arazim Ltd is leading provider of advanced sensors for static & dynamic analysis as well as sub-systems for attitude, navigation and control applications. Arazim Ltd. Will exhibit at it's booth Ultra-Miniature Hi-Performance MEMS-Based Navigation Systems, advanced MEMS-Based Sun-Sensors, miniature Star-Tracker, TEST-In-Space Multi-Payload Satellite service, Accelerometers & Pressure sensors for dynamic analysis and more, all from leading US&EU companies.

N - 13

**HSL - Herzliya Science Laboratory – Hoopoe project****On-Site contact person:** Sharon Mishaal

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**Web:** www.h-space-lab.org

The DUCHIFAT NanoSatellite Series – Herzliya Science Center  
 DUCHIFAT 1 is the first Israeli nanosatellite and the first European satellite developed by high school students. It was successfully launched into space aboard the “Dnepr” on June 19, 2014. DUCHIFAT 2 (Hoopoe) - a QB50 nanosatellite for in-situ measurements in the lower thermosphere, is being designed and built by Israeli high school students from Ofakim, Yeruham, Ofra, Hura (Bedouin community) and Herzliya.

N - 14

**ISERD - The Israel-Europe R&D Directorate****On-Site contact person:** Ms. Sharyn Lieberman**Contact person in ISERD:** Vered Ariel-Nahari**Contact person:** Dr. Nili Mandelblit – Director of Aerospace, Nanotechnology, Materials, Production

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ISERD - the Israel-Europe R&D Directorate promotes the participation of Israeli entities in R&D ventures within the European Research Area. ISERD is operated through the Office of the Chief Scientist of the Ministry of Economy, and is Israel's official contact point (NCP) with the EU, for all the activities of the Framework Programs.

N - 15

**Orbit CS****On-site contact persons:** Mr. Samuel Snir, Mr / Stav Gizunterman,

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 stav.gizunterman@orbit-cs.com  
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**Email:** shlomit.hertz@orbit-cs.com  
**Web:** www.orbit-cs.com

**Follow-up contact person:** Mrs. Shlomit Hertz

ORBIT is a leading global provider of technology based Mission Critical integrated communication solutions. We develop, integrate and install end-to-end turnkey communication solutions and services for land, sea, air and space applications. Based on a customer-centric approach, we offer integrated turnkey solutions for defense, government and commercial organizations.

Founded in 1950, The Company boasts an international sales and customer support network that includes the United States, Europe and the Far East in addition to its international technical service centers located around the world. ORBIT's end-to-end solutions are installed at leading Navies, major Air Forces, government and private organizations and used by airborne integrators, space agencies and earth observation imagery and connectivity providers world-wide.

#### N - 16 CMI Electronic Industries Trading Ltd

**Contact person:** Moshe

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#### N - 17 Acktar, Ltd.

**Tel:** +972-8-6814213, ext.0  
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**Email:** [ackinfo@acktar.com](mailto:ackinfo@acktar.com)  
**Web:**

Acktar is word leader in manufacturing of Super Black Materials and Coatings for UV, Visible and Infrared Wavelength. Acktar Fractal Black TM and Magic Black TM are used in key space programs of ESA & NASA. Fully comply with REACH and RoHS. Can be provided on all metals, composite materials, glass and polymers.

#### N - 18

#### ImageSat International

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**Follow-up contact person:** Kira Zibnitzk

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**Tel:** +972-3-5393109  
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**Web:** <http://www.imagesatintl.com>

ImageSat International N.V. is the owner and operator of the EROS A and EROS B very high resolution imaging satellites, whose global coverage provides high-quality imaging services, satisfying national defense, homeland security, emergency services and national development needs, as well as a wide range of civilian applications worldwide.

The national security sector is able to obtain Earth imagery from ImageSat's EROS constellation of satellites with maximum autonomy, secrecy and flexibility. Through tailored service packages, ImageSat enables customers to directly access the satellites, allowing real-time data download and direct tasking, as well as access to processing systems and services to utilize the acquired data.

The civilian sector enjoys flexibility in obtaining high-resolution satellite imagery in small quantities or in packages to suit their project requirements.

For certain scenarios and applications, ImageSat offers direct data download with the "MiniTer" light ground receiving station with a very small (1.5 meter) antenna.



## N - 19 Space IL

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**Follow-up contact person:** Oshrat Slama – Director of Marketing communications

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SpaceIL is a nonprofit organization working to land the first Israeli spacecraft on the Moon. Our mission is part of the international competition Google Lunar XPRIZE: A modern Moon race. SpaceIL is committed to using the potential prize money to promote science education in Israel and recreate a new “Apollo Effect”.

## N - 20 Space Pharma R&D

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**Contact person:** Sivan Kozminsky

SpacePharma provides simple and valuable, end-to-end solutions for microgravity research. Our Nano-labs can be remote-controlled by users everywhere, and can be mounted on multiple microgravity platforms, including simulators, parabolic-flights, and our state-of-the-art Nano-satellites. This year, SpacePharma will launch the first-ever commercial Nano-satellite for microgravity research... the first of many.

## N - 21 Israel Space Agency

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**Email:** dovermada@most.gov.il  
**Web:** http://space.gov.il/en/node/14

Israel Space Agency – ISA is affiliated with the Ministry of Science Technology and Space, State of Israel. ISA is activity engaged in promoting Israel scientific and technological capabilities, for usage of space for peaceful purposes.

Empowering Israel’s space industries aptitude is ISA major objective, agenda, and strategy; consisting mainly on R&D support via international partnerships and cooperation with space agencies and international organizations, through bilateral and multilateral agreements. In recent years, Israel Space Agency- ISA is diligently expanding its existing and new international cooperation.

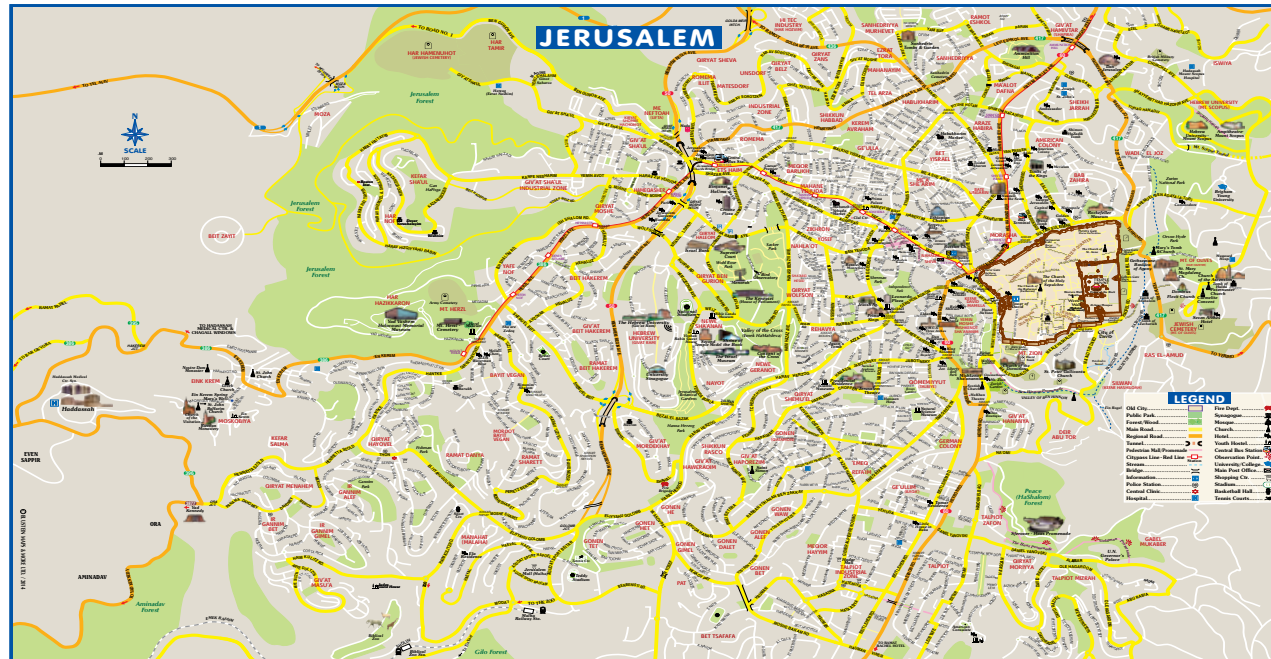
## Booth: N - 22 Lockheed Martin

**On-site contact persons:** David Welch

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**Web:** www.lockheedmartin.com

Lockheed Martin is a global security and aerospace company principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. Our display will feature the Orion deep space exploration vehicle with highlights from its first orbital test flight. We will also highlight work being done on human and robotic space exploration missions, as well as our dedication to employing the latest advancements in technology to solve our customers’ biggest challenges.





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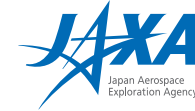


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