

Monday

Monday, 16 May 2016

1-PLNRY-1 0900 - 1100 hrs	Opening Ceremony	Grand Ballroom
<p>Opening Address Gwang-Rae Cho President, Korea Aerospace Research Institute (KARI)</p> <p>Welcoming Address Representative of Ministry of Science, ICT and Future Planning</p> <p>Congratulatory Address I Sun-taik Kwon Mayor, Daejeon Metropolitan City, Korea</p> <p>Congratulatory Address II William Gerstenmaier Associate Administrator, NASA Human Exploration and Operations Mission Directorate</p> <p>Keynote I <i>Introduction to KARI's Space Program</i> Seong-Bong Choi Executive Director, Korea Aerospace Research Institute</p> <p>Keynote II <i>Rosetta - How to Catch a Comet</i> Paolo Ferri Head, Mission Operations Department, European Space Agency</p> <p>Keynote III <i>Philae - First Landing on a Comet</i> Stephan Ulamec Philae Lander Manager, German Space Agency</p> <p>Keynote IV <i>Philae/Rosetta: A Key Step in Solar System Exploration</i> Jean-Pierre Bibring Philae Lead Scientist and Astrophysicist, Institut d'Astrophysique Spatiale</p>		

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2-NW-1 1100 - 1130 hrs	Monday Morning Coffee Break	Grand Ballroom Foyer
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Monday, 16 May 2016

3-CSIS-1	CSIS - New Implementations of Standards	Room 104
Chaired by: M. DOYON, Canadian Space Agency and N. PECCIA, European Space Agency (ESA) -ESOC 1130 hrs AIAA-2016-2300 Design and Implementation of KARI SLE User Interface H. Oh, I. Koo, S. Ahn, Korea Aerospace Research Institute, Daejeon, South Korea		
1200 hrs AIAA-2016-2301 An architecture for dynamic management of the SLE services: Experience at the National Institute for Space Research. A. Julio Filho, A. Ambrosio, M. Gonçalves Vieira Ferreira, National Institute for Space Research (INPE), São José dos Campos, Brazil		

Monday, 16 May 2016

4-GSCDP-1	GSCDP - Advanced Technologies for Space Operations I	Room 105
Chaired by: C. OMEARA, DLR- German Aerospace Center and V. NAVARRO, European Space Agency (ESA) 1130 hrs AIAA-2016-2302 Data Mining for Operations: Expertise and Services A. Donati, J. Martinez, ESA, Darmstadt, Germany		
1200 hrs AIAA-2016-2303 Enabling Communication and Navigation Technologies for Future Near Earth Science Missions D. Israel, G. Heckler, R. Menrad, NASA Goddard Space Flight Center, Greenbelt, MD; D. Boroson, B. Robinson, Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, MA; J. Hudiburg, NASA Goddard Space Flight Center, Greenbelt, MD; et al.		

Monday, 16 May 2016		
5-GSCDP-2	GSCDP - Flight Control Systems and EGSE I	Room 106
Chaired by: H. PASQUIER, CNES and M. MERRI, European Space Agency (ESA)		
1130 hrs AIAA-2016-2304 The Operational Adoption of the EGS-CC at ESA M. Pecchioli, ESA, Darmstadt, Germany; J. Carranza, ESA, Noordwijk, The Netherlands; A. Walsh, ESA, Darmstadt, Germany	1200 hrs AIAA-2016-2305 Reducing the Gap from Satellite AIT to Operations M. Niezette, Telespazio, Darmstadt, Germany; N. Mecredy, Terma, Leiden, The Netherlands; M. Goetzelmann, Telespazio, Darmstadt, Germany	
Monday, 16 May 2016		
6-HSO-1	HSO - ISS Tools	Room 108
Chaired by: F. ALLARD, ESA/ESTEC and A. GOSLING		
1130 hrs AIAA-2016-2306 mobiPV: A new, wearable real-time collaboration software for Astronauts using mobile computing solutions A. Boyd, A. Fortunato, ESA, Cologne, Germany; M. Wolff, D. Oliveira, ESA, Noordwijk, The Netherlands	1200 hrs AIAA-2016-2307 The YAMCS Notification Add-on: an automated notification tool for operations in human space flight C. Jacobs, S. Klai, M. Schmitt, Space Applications Services, Zaventem, Belgium	
Monday, 16 May 2016		
7-OCFE-1	OCFE - End of Life II	Room 101
Chaired by: A. MONHAM, EUMETSAT and R. CANTON, CNES		
1130 hrs AIAA-2016-2308 In-flight Tank Replenishment of ESA's XMM-Newton space observatory U. Weissmann, N. Krusenstiern, Telespazio, Darmstadt, Germany; B. Schuereberg, Airbus, Friedrichshafen, Germany; T. Godard, RHEA System, Darmstadt, Germany; M. Kirsch, ESA, Darmstadt, Germany		
Monday, 16 May 2016		
8-OCFE-2	OCFE - Ops Automation Optimization IV	Room 102
Chaired by: B. TEIXEIRA DE SOUSA, European Space Agency (ESA) and A. DIETZ, ESOC		
1130 hrs AIAA-2016-2309 Space operations at the beginning of the millennium. New challenges, trends, anticipation of the future. Towards more efficient solutions for the flight control teams G. Mihail, A. Tomescu, LSE Space GmbH, Darmstadt, Germany	1200 hrs AIAA-2016-2310 Techniques and Tools for Summarizing Performance of Robots Operating Remotely D. Schreckenghost, T. Milam, TRAC Labs, Webster, TX; T. Fong, NASA Ames Research Center, Moffett Field, CA	
Monday, 16 May 2016		
9-LUNCH-1 1230 - 1330 hrs	Monday Lunch	Exhibition Hall

Monday, 16 May 2016			Exhibition Hall
1230 - 1600 hrs		Posters	
10-PSTR-1 GSCDP - Posters Chaired by: B. LEE, Electronics and Telecommunications Research Institute (ETRI) and E. CRUZ	1230 hrs AIAA-2016-2311 Preliminary Design of LUDOLP: the Flight Dynamics Subsystem for the Korea Pathfinder Lunar Orbiter Mission Y. Song, D. Lee, J. Bae, B. Kim, Korea Aerospace Research Institute, Daejeon, South Korea; Y. Kim, E. Lee, Yonsei University, Seoul, South Korea; et al.	AIAA-2016-2312 Improving Operations and Reducing Maintenance via Server-Side Software A. Brandt, M. Staub, INSYEN AG,	AIAA-2016-2313 Advanced trend analysis system of telemetry for KOMPSAT series Operations Y. Kim, H. Baek, Y. Kim, M. Kim, S. Ahn, Korea Aerospace Research Institute, Daejeon, South Korea; Oberpfaffenhofen, Germany
	AIAA-2016-2314 The Science Operations Quicklook Analysis System for BepiColombo MPO F. Perez-Lopez, S. Martinez, I. Ortiz de Landaluze, N. Fajersztajn, M. Freschi, M. Fernandez, European Space Astronomy Centre, Villanueva de la Cañada, Spain; et al.	AIAA-2016-2315 Matrix Receiving Structure Design for Versatile Multi-mission LEO Operations D. Park, Korea Aerospace Research Institute, Daejeon, South Korea	AIAA-2016-2316 Prototype VOEvent Network Systems based on VTP and XMPP for the SVOM Chinese Science Center M. Zhang, M. Huang, C. Wu, Chinese Academy of Sciences, Beijing, China
	AIAA-2016-2317 An integrated telemetry system for multi-satellite operations H. Baek, Y. Kim, Y. Kim, M. Kim, S. Ahn, Korea Aerospace Research Institute, Daejeon, South Korea; S. Lee, Chungnam National University, Daejeon, South Korea	AIAA-2016-2318 ETRI Script Language and Procedure Execution for Satellite and Ground Operations Automation I. Kim, S. Lee, B. Lee, Electronics and Telecommunications Research Institute, Daejeon, South Korea; M. Kim, B. Jeon, B. Kang, Soletop Co., Ltd., Daejeon, South Korea	AIAA-2016-2319 Development and Validation of RFI estimation tool for KOMPSAT series missions Y. Kim, S. Ahn, H. Baek, Y. Kim, M. Kim, Korea Aerospace Research Institute, Daejeon, South Korea; J. Park, Chungnam National University, Daejeon, South Korea
	AIAA-2016-2320 The GK2A/2B Ground System after the COMS H. Lim, Korea Aerospace Research Institute, Daejeon, South Korea	AIAA-2016-2321 Consolidation Approaches of KOMPSAT Mission Operations System based on Virtualization Technology M. Lee, Korea Aerospace Research Institute, Daejeon, South Korea	AIAA-2016-2322 Development of SAR Image Reception Processing Element T. Oh, D. Chung, Korea Aerospace Research Institute, Daejeon, South Korea
	AIAA-2016-2323 Elementary research on software functional testing size estimation for space astronomical optical payload data processing system L. Zhou, M. Huang, Chinese Academy of Sciences, Beijing, China	AIAA-2016-2324 The Umbilical Test Set for Successful AIT and Launch Pad Operation J. Park, D. Chae, S. Bang, M. Yu, G. Moon, Korea Aerospace Research Institute, Daejeon, South Korea	AIAA-2016-2325 Development of Radiometric Calibration System for AMI J. Park, J. Bok, H. Oh, H. Lim, Korea Aerospace Research Institute, Daejeon, South Korea
	AIAA-2016-2326 Overview of tools for operations procedure storage and control - applicability to BepiColombo science operations. R. Gill, RHEA System, Villanueva de la Cañada, Spain; M. Casale, ESA, Villanueva de la Cañada, Spain; S. de la Fuente, GMV, Villanueva de la Cañada, Spain; W. O'Mullane, ESA, Villanueva de la Cañada, Spain	AIAA-2016-2327 A Quality Control System Architecture for Geostationary meteorological Satellite Image Processing System T. Lee, S. Kwak, Satrec Initiative, Daejeon, South Korea	AIAA-2016-2328 Towards a Common Software Engineering Environment for Science Operations V. Navarro, ESA, Villanueva de la Cañada, Spain; A. Sisask, K. Hanson, CGI, Oslo, Norway; R. Gill, J. Marcos, M. Fernandez, ESA, Villanueva de la Cañada, Spain; et al.
	AIAA-2016-2329 Megha-Tropiques and Sentinel2 Expertise Centers: comparison of image quality monitoring systems J. Raynaud, M. Dejus, T. Tremas, J. Nosavan, B. Petrucci, French Space Agency (CNES), Toulouse, France; A. Lacamp, Thales Group, Toulouse, France	AIAA-2016-2330 TM/TC Encryption System D. Lopez, E. Fraga, GMV, Madrid, Spain	AIAA-2016-2331 Satellite Ground Station Virtualization F. Riffel, KLS GmbH, Landsberg am Lech, Germany
	AIAA-2016-2332 Observation Image Simulator of Visible Telescope in SVOM Mission C. Wu, Y. Qiu, Chinese Academy of Sciences, Beijing, China	AIAA-2016-2333 Landsat 8: Difficulties and Workarounds with Trending and Analysis A. Coleman, J. Flemke, Honey Technical Solutions, Greenbelt, MD	AIAA-2016-2334 DuabiSat-2 Image Handling K. Zowayed, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates
	AIAA-2016-2335 Mismatch Estimating and Compensating Method of Amplitude and Phase by Angle Error Detector J. Chen, State Key Laboratory of Aerospace Dynamics, Xi'an, China; H. Hu, X. Xu, Xi'an Satellite Control Center, Xi'an, China		
	11-PSTR-2 LRBO - Posters Chaired by: C. CRUZEN, NASA Marshall Space Flight Center and J. MONREAL, European Space Agency (ESA)	AIAA-2016-2336 Launch Vehicle Simulator Design using Modeling Language for Ground Control System K. Kim, Korea Aerospace Research Institute, Daejeon, South Korea	AIAA-2016-2337 Development of Improved Security Command Insertion Device for Flight Termination System S. Hwang, C. Oh, H. Jung, K. Ma, Korea Aerospace Research Institute, Daejeon, South Korea

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12-CSIS-2	CSIS - Advanced Standards for Future Missions I		Room 104
Chaired by: M. DOYON, Canadian Space Agency and G. KAZZ, NASA-Jet Propulsion Laboratory			
1330 hrs AIAA-2016-2338 IOAG Service Catalogs: an effective and dynamic tool for standardization requirements G. Calzolari, ESA, Darmstadt, Germany; J. Soula, French Space Agency (CNES), Toulouse, France	1400 hrs AIAA-2016-2339 The CCSDS Long Term Strategy Plan N. Peccia, ESA, Darmstadt, Germany	1430 hrs AIAA-2016-2340 Interoperable End-to-End Space Communications Architectures Using CCSDS Building Blocks P. Shames, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1500 hrs AIAA-2016-2341 Retire Legacy Technology with the CCSDS MO Services M. Merri, M. Sarkarati, ESA, Darmstadt, Germany
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13-ESO-1	ESO - Space Program and Agency		Room 107
Chaired by: T. IWATA, Japan Aerospace Exploration Agency-Tsukuba and E. AVENANT, The South African National Space Agency			
1330 hrs AIAA-2016-2342 Emerging Space Operations in Asia and Developing Countries: Overview T. Iwata, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan; E. Bergamini, National Institute for Space Research (INPE), São José dos Campos, Brazil; E. Avenant, South African National Space Agency, Hartbeesthoek, South Africa; S. Nakamura, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan	1400 hrs AIAA-2016-2343 An Insight into Pakistan Space Program S. Zahid, SUPARCO, Karachi, Pakistan	1430 hrs AIAA-2016-2344 Developing a Space Program in a Developing Country: Opportunities and Challenges B. Ntlhe, S. Magagula, South African National Space Agency, Pretoria, South Africa	1500 hrs AIAA-2016-2345 Quest of Nigeria into Space for Sustainable Development I. Ikpaye, S. Onuh, C. Achem, F. Madalla, National Space Research and Development Agency, Abuja, Nigeria
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14-GSCDP-3	GSCDP - Advanced Technologies for Space Operations II		Room 105
Chaired by: D. BINDSCHADLER, Jet Propulsion Laboratory and B. NASSAR			
1330 hrs AIAA-2016-2346 Speed-up in-flight investigation with 2D/3D dynamic correlation E. Renaudie, G. Picart, French Space Agency (CNES), Toulouse, France; M. Smith, Q. Minster, SPACEBEL, Labege, France	1400 hrs AIAA-2016-2347 ATHMoS: Automated Telemetry Health Monitoring System at GSOC using Outlier Detection and Supervised Machine Learning C. O'Meara, L. Schlag, L. Faltenbacher, M. Wickler, German Aerospace Center (DLR), Wessling, Germany	1430 hrs AIAA-2016-2348 Open Source Next Generation Visualization Software for Interplanetary Missions J. Trimble, NASA Ames Research Center, Moffett Field, CA; G. Rinker, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	
Monday, 16 May 2016			
15-GSCDP-4	GSCDP - Flight Control Systems and EGSE II		Room 106
Chaired by: M. SCHMIDHUBER, DLR/GSOC Mission Operations and H. PASQUIER, CNES			
1330 hrs AIAA-2016-2349 Deterministic Ethernet for Space Applications C. Fidi, TTTech, Vienna, Austria	1400 hrs AIAA-2016-2350 Advanced Environment and Processes to Support the Collaborative Development of a Large Operational System J. Carranza, ESA, Noordwijk, The Netherlands; M. Pecchioli, ESA, Darmstadt, Germany; E. Bjornvedt, CS, Toulouse, France; A. Heim, ESA, Noordwijk, The Netherlands; A. Walsh, ESA, Darmstadt, Germany; B. Höhner, Telespazio, Darmstadt, Germany		
Monday, 16 May 2016			
16-HSO-2	HSO - Simulations and Analogs		Room 108
Chaired by: T. MUELLER, DLR and M. FOSSUM, NASA-JSC			
1330 hrs AIAA-2016-2351 Mars Analogue Mission Crew 159 at MDRS: Christmas on Mars C. Cocchiara, EUMETSAT, Darmstadt, Germany	1400 hrs AIAA-2016-2352 Future Mars Exploration Operational Simulation: Research Outcomes and Educational Benefit B. Morrell, University of Sydney, Sydney, Australia; J. Read, M. Coen, A. Probe, G. Charmitoff, Texas A&M University, College Station, TX; G. James, NASA Johnson Space Center, Houston, TX	1430 hrs AIAA-2016-2353 Analogues for Preparing Robotic and Human Exploration on the Moon T. Hoppenbrouwers, Space Applications Services, Zaventem, Belgium	

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17-MDM-2	MDM - Mission Operations Concepts II		Room 103
Chaired by: E. MAURER and B. DEGUINE, CNES			
1330 hrs AIAA-2016-2354 OPS-SAT: Operational Concept for ESA'S First Mission Dedicated to Operational Technology D. Evans, ESA, Darmstadt, Germany	1400 hrs AIAA-2016-2355 Enabling international data relay at Mars D. Wenkert, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; P. Schmitz, ESA, Darmstadt, Germany; R. Gladden, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; M. Denis, A. Winton, ESA, Darmstadt, Germany; C. Edwards, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1430 hrs AIAA-2016-2356 COSMO-SkyMed Di Seconda Generazione Mission Requirement Refinement Process During Phase C C. Fiorentino, Italian Space Agency (ASI), Rome, Italy; S. Serva, Italian Ministry of Defence, Rome, Italy; S. Mari, M. Porfilio, Italian Space Agency (ASI), Rome, Italy	1500 hrs AIAA-2016-2357 Operational scheduling of Direct Tasking innovative concept to improve reactivity on earth observation system G. Codou, E. Cubero-Castan, T. Duverger, R. Mesnard, F. Tavera, French Space Agency (CNES), Toulouse, France; C. Casserra, DGA, Paris, France
Monday, 16 May 2016			
18-OCFE-3	OCFE - End of Life I		Room 101
Chaired by: R. CANTON, CNES and A. MONHAM, EUMETSAT			
1330 hrs AIAA-2016-2358 The Last Orbit: Planning Cassini's Plummet into Saturn M. Bittner, W. Heventhil, E. Sturm, J. Webster, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1400 hrs AIAA-2016-2359 Clean-up your space: INTEGRAL low cost end-of-life disposal J. Huebner, R. Southworth, ESA, Darmstadt, Germany; D. Salt, Telespazio, Darmstadt, Germany; C. Dietze, CS, Darmstadt, Germany; A. McDonald, CGI, Darmstadt, Germany; K. Merz, ESA, Darmstadt, Germany; et al.	1430 hrs AIAA-2016-2360 COROT decommissioning: a platform turned into an in-flight demonstrator R. Canton, S. Burgaud, French Space Agency (CNES), Toulouse, France	1500 hrs AIAA-2016-2361 Venus Express End of Life Operations – or the art of saying good-bye M. Eiblmaier, T. Francisco, D. Lakey, A. Williams, R. Blake, ESA, Darmstadt, Germany
Monday, 16 May 2016			
19-OCFE-4	OCFE - Ops Automation Optimization III		Room 102
Chaired by: A. RUDOLPH, European Space Agency (ESA) -ESOC and G. PICART, CNES			
1330 hrs AIAA-2016-2362 Development of a new network design and operational concept for a data-centric service with high capacity for small satellites and large constellations P. Hyvönen, M. Tyni, M. Liljeblad, D. Massey, SSC Group, Solna, Sweden	1400 hrs AIAA-2016-2363 Efficient Management of Ground Segment Resources – ESOC's GSAO Approach to Offline Operations R. Messaros, Siemens, Vienna, Austria; H. Dreihahn, ESA, Darmstadt, Germany; R. Zajonc, Siemens, Prague, Czech Republic	1430 hrs AIAA-2016-2364 Obsolescence management and improvements of ESTRACK M&C System A. Riise, ESA, Darmstadt, Germany	1500 hrs AIAA-2016-2365 Automating Operations on ESA's Billion Star Surveyor Gaia Mission D. Milligan, ESA, Darmstadt, Germany
Monday, 16 May 2016			
20-NW-2 1530 - 1600 hrs	Monday Afternoon Coffee Break		Conference Room Foyer & Exhibition Hall
Monday, 16 May 2016			
21-CSIS-3	CSIS - Advanced Standards for Future Missions II		Room 104
Chaired by: P. SHAMES, Jet Propulsion Laboratory and J. SOULA, CNES			
1600 hrs AIAA-2016-2366 Technical studies for operations with real-time communications in robotic missions D. Weber, R. Falcone, M. Gnat, A. Hauke, F. Huber, German Aerospace Center (DLR), Wessling, Germany	1630 hrs AIAA-2016-2367 DTN Network Management O. Peinado, J. Mayer, German Aerospace Center (DLR), Wessling, Germany	1700 hrs AIAA-2016-2368 Interoperability: voice and audio standards for Space missions. O. Peinado, German Aerospace Center (DLR), Wessling, Germany	

Monday, 16 May 2016				
22-ESO-2		ESO - New Mission and Ground Station		Room 107
Chaired by: E. AVENANT, The South African National Space Agency and S. NAKAMURA, Japan Aerospace Exploration Agency				
1600 hrs AIAA-2016-2369 SpaceBox STEP-1 : THAI CubeSat toward a self sustainable future T. Annuaikiatloet, T. Tantikul, P. Techalertvijit, P. Sukchaleram, W. Vongsantivanich, P. Limpichaisopon, SpaceBox Laboratory, Bangkok, Thailand	1630 hrs AIAA-2016-2370 Emirates Mars Mission – Al Amal Overview A. Alrais, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates; M. Bester, University of California, Berkeley, Berkeley, CA; B. Stroozas, Stroozas FlightOps, Walnut Creek, CA; M. Alloghani, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates	1700 hrs AIAA-2016-2371 Managing Expectations for Ground Station Development at Awarua, New Zealand R. McNeill, Venture Southland, Invercargill, New Zealand	1730 hrs AIAA-2016-2372 Putting together a ground segment for a new telecom satellite operator. E. Fraga, GMV, Tres Cantos, Spain	
Monday, 16 May 2016				
23-GSCDP-5		GSCDP - Advanced Technologies for Space Operations III		Room 105
Chaired by: R. SCHEID and N. PERERA, DLR				
1600 hrs AIAA-2016-2373 Deep Space Network: The Next 50 Years L. Deutsch, S. Townes, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; P. Liebrecht, P. Vrotsos, D. Cornwell, NASA Headquarters, Washington, D.C.	1630 hrs AIAA-2016-2374 ProToS: Next Generation Procedure Tool Suite for Creation, Execution and Automation of Flight Control Procedures T. Beck, L. Schlag, J. Hamacher, German Aerospace Center (DLR), Wessling, Germany	1700 hrs AIAA-2016-2375 Achieving Fast Operational Intelligence in NASA's Deep Space Network Through Complex Event Processing J. Choi, R. Verma, S. Malhotra, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1730 hrs AIAA-2016-2376 The NICT's New Optical Ground Station for Satellite Laser Communication and SOTA-SOCRATES Experiment M. Akioka, H. Takenaka, M. Toyoshima, Y. Koyama, National Institute of Information and Communications Technology, Koganei, Japan; Y. Takayama, Tokai University, Tokyo, Japan; T. Seki, Nishimura Co., Ltd., Kyoto, Japan	
Monday, 16 May 2016				
24-GSCDP-6		GSCDP - Data Management		Room 106
Chaired by: M. SCHMIDHUBER, DLR/GSOC Mission Operations and B. LEE, Electronics and Telecommunications Research Institute (ETRI)				
1600 hrs AIAA-2016-2377 Data Analytics for Large Constellations G. Adamski, I-3 Communications, San Diego, CA	1630 hrs AIAA-2016-2378 A Meta Archive Providing Unified Access to all Operational Data at the German Space Operations Center S. Gärtner, A. Braun, German Aerospace Center (DLR), Wessling, Germany	1700 hrs AIAA-2016-2379 Handling of operational data for the Columbus Mission M. Vereda, O. Peinado, German Aerospace Center (DLR), Munich, Germany	1730 hrs AIAA-2016-2380 New Generation Mission Operations Preparation Framework W. Heinen, RHEA System, Wavre, Belgium	
Monday, 16 May 2016				
25-HSO-3		HSO - Exploration		Room 108
Chaired by: F. ALLARD, ESA/ESTEC and A. GOSLING				
1600 hrs AIAA-2016-2381 Advanced Technologies for Robotic Exploration Leading to Human Exploration: Summary and Analysis from the SpaceOps 2015 Workshop M. Lupisella, NASA Goddard Space Flight Center, Greenbelt, MD; T. Mueller, German Aerospace Center (DLR), Berlin, Germany	1630 hrs AIAA-2016-2382 Data Mining for Astronauts Medical Autonomy J. Martinez, Black Hat S.L., Cordoba, Spain; A. Donati, ESA, Darmstadt, Germany; V. Damann, ESA, Cologne, Germany; J. Biancat, C. Brighenti, A. Brighenti, S.A.T.E., Venice, Italy; et al.	1700 hrs AIAA-2016-2383 Human Flight to Lunar and Beyond – Re-Learning Operations Paradigms J. Statman, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; E. Kenny, NASA Johnson Space Center, Houston, TX	1730 hrs AIAA-2016-2384 Operational Feasibility of Human-Robotic Analog Planetary Missions: An analysis from AMADEE-15 P. Vyshnav, M. Muller, Austrian Space Forum, Innsbruck, Austria	
Monday, 16 May 2016				
26-OCFE-5		OCFE - Ops Automation Optimization II		Room 102
Chaired by: A. RUDOLPH, European Space Agency (ESA) -ESOC and G. PICART, CNES				
1600 hrs AIAA-2016-2385 Copernicus POD Service Operational Experience J. Fernández-Sánchez, D. Escobar, F. Ayuga, GMV, Tres Cantos, Spain; P. Féménias, ESA, Frascati, Italy	1630 hrs AIAA-2016-2386 MASCOT Lander Operational Concept and its Autonomy, General Services and Resource Optimisation Implementation in the On-Board Software F. Cordero, Telespazio, Darmstadt, Germany	1700 hrs AIAA-2016-2387 Flying Large Constellations Using Automation and Big Data K. Gilles, L-3 Communications, San Diego, CA		

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27-OCFE-6	OCFE - Ops Validation	Room 101
Chaired by: C. STEIGER, European Space Agency (ESA) -ESOC and C. YANA, CNES		
1600 hrs AIAA-2016-2388 Operational Validation of the MTG multi-satellite system E. Bouchez, M. Legendre, F. Murolo, R. Perin, EUMETSAT, Darmstadt, Germany	1630 hrs AIAA-2016-2389 Optical Inter-Satellite Communication: the Alphasat and Sentinel-1A in-orbit experience E. Benzi, ESA, Noordwijk, The Netherlands; D. Troendle, TESAT Spacecom, Backnang, Germany; I. Shurmer, ESA, Darmstadt, Germany; M. James, Inmarsat PLC, London, United Kingdom; M. Lutzer, German Aerospace Center (DLR), Bonn, Germany; S. Kuhlmann, German Aerospace Center (DLR), Wessling, Germany	1700 hrs AIAA-2016-2390 Towards automated end-to-end testing and validation of operational data D. Lucia, R. van Gijlswijk, S. Carosi, S. de la Rosa Steinz, Telespazio, Darmstadt, Germany; S. Haag, ESA, Darmstadt, Germany; P. Athmann, Airbus, Bremen, Germany
Monday, 16 May 2016		
28-NW-3 1800 - 2100 hrs	Welcome Reception	Exhibition Hall
Tuesday		
Tuesday, 17 May 2016		
29-PLNRY-2 0830 - 1000 hrs	Future Directions for Emerging National Space Programs	Grand Ballroom
Moderator: Chin-Young Hwang Executive Director, Korea Aerospace Research Institute (KARI) Panelists:		
Mohamed N. Alahbabi Director General, UAE Space Agency United Arab Emirates	Sandile B. Malinga Chief Executive Officer, South African National Space Agency (SANSA) Republic of South Africa	S. Parameswaran Director of Master Control Facility, Indian Space Research Organization (ISRO) India
Keyur Patel Director, Interplanetary Network Directorate, NASA Jet Propulsion Laboratory United States of America		
Tuesday, 17 May 2016		
30-NW-4 1000 - 1030 hrs	Tuesday Morning Coffee Break	Grand Ballroom Foyer
Tuesday, 17 May 2016		
31-CSIS-4	CSIS - Secure Interoperability and Cross Support	Room 104
Chaired by: M. DOYON, Canadian Space Agency and J. DIFFERDING, NASA Ames Research Center		
1030 hrs AIAA-2016-2391 SpaceSecLab: A modular environment for prototyping space-link security protocols D. Fischer, M. Spada, D. Koisser, ESA, Darmstadt, Germany	1100 hrs AIAA-2016-2392 Applying Secure Software Engineering (SSE) Practices to Critical Space System Infrastructure Development D. Wiemer, S. Reid, RHEA System, Brussels, Belgium	1130 hrs AIAA-2016-2393 A Standardized Approach for Providing Information Security to Space Projects D. Richter, German Aerospace Center (DLR), Wessling, Germany
Tuesday, 17 May 2016		
32-ESO-3	ESO - Mission Operations Experience	Room 107
Chaired by: T. IWATA, Japan Aerospace Exploration Agency-Tsukuba and M. GONCALVES VIEIRA FERREIRA		
1030 hrs AIAA-2016-2394 Launch and Early Operation Results of KOMPSAT-3A M. Jeon, S. Lee, E. Kim, S. Lim, S. Choi, Korea Aerospace Research Institute, Daejeon, South Korea	1100 hrs AIAA-2016-2395 MBRSC Mission Operations M. Al Harmi, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates	1130 hrs AIAA-2016-2396 Operation of DAMPE at China Space Science Mission Center L. Yurong, Chinese Academy of Sciences, Beijing, China

Tuesday, 17 May 2016			
33-GSCDP-7	GSCDP - Advanced Technologies for Space Operations IV		Room 105
Chaired by: M. PECCHIOLI, European Space Agency (ESA) -ESOC and C. OMEARA, DLR- German Aerospace Center			
1030 hrs AIAA-2016-2397 Data Mining to Drastically Improve Spacecraft Telemetry Checking: An Engineer's Approach D. Evans, J. Martinez, M. Korte-Stapff, ESA, Darmstadt, Germany; A. Brighenti, C. Brighenti, J. Biancat, Systems & Advanced Technologies Engineering, Venice, Italy	1100 hrs AIAA-2016-2398 Data Mining to Drastically Improve Spacecraft Telemetry Checking: A Scientist's Approach D. Evans, J. Martinez, M. Korte-Stapff, ESA, Darmstadt, Germany; B. Vandenbussche, P. Royer, J. De Ridder, Catholic University of Leuven, Leuven, Belgium	1130 hrs AIAA-2016-2399 One-Click Data Analysis Software for Science Operations V. Navarro, ESA, Villanueva de la Cañada, Spain; L. Dias, A. Constantino, EDISOFT, Lisbon, Portugal; C. Gabriel, A. Ibarra, B. Merin, ESA, Villanueva de la Cañada, Spain; et al.	1200 hrs AIAA-2016-2400 Using Computer Visualization as a Verification Tool for New Horizons' Pluto Encounter Instrument Operations H. Kang, Johns Hopkins University Applied Physics Laboratory, Laurel, MD; A. Harch, Self, Brooktondale, NY; N. Martin, Self, Crested Butte, CO; E. Birath, Southwest Research Institute, Boulder, CO
Tuesday, 17 May 2016			
34-GSCDP-8	GSCDP - Ground Network and Antenna Concepts		Room 106
Chaired by: K. SCHULZ, European Space Agency (ESA) -ESOC and J. STATMAN, Jet Propulsion Laboratory			
1030 hrs AIAA-2016-2401 Architecture and Concept of Operation of Next-Generation Ground Network for Communications and Tracking of Interplanetary Smallsats K. Cheung, C. Lee, S. Waldherr, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; M. Lanucara, ESA, Rome, Italy; B. Malphrus, Morehead State University, Morehead, KY; W. Dove, Johns Hopkins University Applied Physics Laboratory, Laurel, MD	1100 hrs AIAA-2016-2402 New S+X bands antennas of CNES – Automation and innovation to support next generation satellites M. Palin, H. Ruiz, E. Sabatier, J. Soula, French Space Agency (CNES), Toulouse, France	1130 hrs AIAA-2016-2403 Use of STEREO High Gain Antenna's Sidelobes at Low SPE Angles M. Cox, Johns Hopkins University Applied Physics Laboratory, Laurel, MD	1200 hrs AIAA-2016-2404 Ground Segment as a Service P. Safarik, S. Schuenemann, CGI, Darmstadt, Germany
Tuesday, 17 May 2016			
35-HSO-4	HSO - ISS Operations		Room 108
Chaired by: T. MUELLER, DLR and M. FOSSUM, NASA-JSC			
1030 hrs AIAA-2016-2405 Project Sibyl: A Novelty Detection System for Human Spaceflight Operations I. Verzola, LSE Space GmbH, Wessling, Germany; A. Donati, J. Martinez, ESA, Darmstadt, Germany; M. Schubert, Ludwig-Maximilians University, Munich, Germany; L. Somodi, Technical University of Munich, Munich, Germany	1100 hrs AIAA-2016-2406 Human Error and the International Space Station: Challenges and Triumphs in Science Operations S. Harris, B. Simpson, NASA Marshall Space Flight Center, Huntsville, AL	1130 hrs AIAA-2016-2407 ACES Operations: an ISS External Scientific Payload Looking for Experimental Confirmations on the General Relativity Theory M. Augelli, French Space Agency (CNES), Toulouse, France	
Tuesday, 17 May 2016			
36-MDM-4	MDM - Mission Operations Experience		Room 103
Chaired by: V. LAFAILLE, CNES and A. AMADOR, JPL			
1030 hrs AIAA-2016-2408 TAKE5 experiment jazzes up SPOT5's end of operational life, using it to simulate the new Sentinel-2 mission M. Behague, O. Hagolle, S. Sylvander, J. Walter, F. Delmas, L. Houpert, French Space Agency (CNES), Toulouse, France; et al.	1100 hrs AIAA-2016-2409 Philae's scientific mission Centre : SONC, a 10-year Philae operations venture P. Gaudon, C. Delmas, French Space Agency (CNES), Toulouse, France	1130 hrs AIAA-2016-2410 A Training, Operations and Maintenance Simulator (TOMS) made to serve the MERLIN Mission A. Strzepek, S. Salas Solano, B. Millet, F. Esteve, H. Darnes, French Space Agency (CNES), Toulouse, France	1200 hrs AIAA-2016-2411 Scientific Exploration Platform Of The Space Science Satellite Operating System B. Meng, Chinese Academy of Sciences, Beijing, China
Tuesday, 17 May 2016			
37-OCFE-7	OCFE - Flight Operations I		Room 101
Chaired by: S. ASMAR, Jet Propulsion Laboratory and G. BUENADICHA, ESA/ESAC			
1030 hrs AIAA-2016-2412 LISA Pathfinder Launch and Early Operations Phase - In-Orbit Experience A. Rudolph, ESA, Darmstadt, Germany	1100 hrs AIAA-2016-2413 Run, INTEGRAL, run! Low wheel speed operations for fuel savings J. Huebner, R. Southworth, ESA, Darmstadt, Germany; R. Seiler, ESA, Noordwijk, The Netherlands; D. Salt, Telespazio, Darmstadt, Germany; R. Kresken, A. McDonald, CGI, Darmstadt, Germany	1130 hrs AIAA-2016-2414 A Mission Planner's Perspective: Planning, Development, and Verification of the New Horizons Pluto Flyby Command Sequences S. Hamilton, K. Whittenburg, H. Hart, H. Weaver, Johns Hopkins University Applied Physics Laboratory, Laurel, MD; S. Stern, L. Young, Southwest Research Institute, Boulder, CO; et al.	1200 hrs AIAA-2016-2415 Voyager Interstellar Mission: Challenges of flying a very old spacecraft on a very long mission S. Matsumoto, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA

Tuesday, 17 May 2016			
38-OCFE-8	OCFE - Ops Automation Optimization I		Room 102
Chaired by: B. TEIXEIRA DE SOUSA, European Space Agency (ESA) and A. DIETZ, ESO			
1030 hrs AIAA-2016-2416 Landsat 8: Applications for General Purpose Command Buffers: The Emergency Conjunction Avoidance Maneuver R. Scheid, Honeywell International, Inc., Greenbelt, MD	1100 hrs AIAA-2016-2417 Automation of Complex Operational Scenarios – Providing 24/7 Inter-Satellite Links with EDRS T. Beck, M. Schmidhuber, J. Scharringhausen, German Aerospace Center (DLR), Wessling, Germany	1130 hrs AIAA-2016-2418 Telecom satellite fleet hassle free operations J. Gil, GMV, Madrid, Spain	
Tuesday, 17 May 2016			
39-LUNCH-2 1230 - 1330 hrs	Tuesday Lunch		Exhibition Hall
Tuesday, 17 May 2016			
40-CSIS-5	CSIS - Implementation of Standards for Missions I		Room 104
Chaired by: J. SOULA, CNES and P. SHAMES, Jet Propulsion Laboratory			
1330 hrs AIAA-2016-2419 The Lunar Space Communications Architecture From The KARI-NASA Joint Study W. Tai, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; I. Kim, S. Moon, D. Kim, Korea Aerospace Research Institute, Daejeon, South Korea; K. Cheung, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; C. Koo, Korea Aerospace Research Institute, Daejeon, South Korea; et al.	1400 hrs AIAA-2016-2420 Evolution of the Mars Relay Network End-to-End Information System in the Mars Human Era (2030-2040) G. Kazz, S. Burleigh, K. Cheung, B. Shah, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1430 hrs AIAA-2016-2421 The Capability of COSMO-SkyMed Di Seconda Generazione to Support Cooperation Scenarios with Other Earth Observation Systems G. De Luca, G. Valentini, L. Fasano, C. Fiorentino, M. Porfilio, T. Scopa, Italian Space Agency (ASI), Rome, Italy; et al.	1500 hrs AIAA-2016-2422 SANA Registries Real Time Access for Operational Use M. Blanchet, A. Schiltknecht, Viagenie, Québec, Canada
Tuesday, 17 May 2016			
41-ESO-4	ESO - Space Center and Ground Station		Room 107
Chaired by: S. NAKAMURA, Japan Aerospace Exploration Agency and E. AVENANT, The South African National Space Agency			
1330 hrs AIAA-2016-2423 Establishment of a Multi-Mission Ground Receiving Station for the Philippines A. Retamar, Advanced Science and Technology Institute, Quezon, Philippines	1400 hrs AIAA-2016-2424 Newly Operating Space Center/Ground Station-Issues and Challenges A. Aziz, J. Zaidi, SUPARCO, Karachi, Pakistan	1430 hrs AIAA-2016-2425 Operation System for Micro and Nano Satellites by Low-Cost Ground Station Network Y. Sakamoto, Tohoku University, Sendai, Japan; R. Ishimaru, Chiba Institute of Technology, Narashino, Japan; A. Retamar, Advanced Science and Technology Institute, Quezon, Philippines	1500 hrs AIAA-2016-2426 KhalifaSat Ground Mission Operations Z. Al Shamsi, O. Al Hammadi, M. Khoory, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates
Tuesday, 17 May 2016			
42-GNC-1	GNC - Flight Dynamics and Navigation I		Room 108
Chaired by: Y. HWANG, Electronics and Telecommunications Research Institute (ETRI) and L. LORDA, CNES			
1330 hrs AIAA-2016-2427 Orbit Transfers for Dawn's Ceres Operations: Navigation and Mission Design Experience at a Dwarf Planet D. Han, J. Smith, B. Kennedy, N. Mastrodomos, G. Whiffen, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1400 hrs AIAA-2016-2428 LISA Pathfinder: New Methods for Acquisition of Signal after large Apogee Raising Maneuvers G. Bellei, DEIMOS Space, Darmstadt, Germany; P. Droll, F. Delhaise, I. Harrison, ESA, Darmstadt, Germany; D. Amend, SERCO GmbH, Darmstadt, Germany	1430 hrs AIAA-2016-2429 FASTMOPS: Filling the gap from Quasi-Stationary Orbit down to a Phobos automated approach for landing B. Teixeira De Sousa, ESA, Darmstadt, Germany; J. Branco, J. Fernandez, F. Cabral, GMV, Lisbon, Portugal	

Tuesday, 17 May 2016			
43-GSCDP-9		GSCDP - Advanced Technologies for Space Operations V	
Chaired by: J. TRIMBLE, NASA-Ames and C. OMEARA, DLR- German Aerospace Center			
1330 hrs AIAA-2016-2430 Improving Spacecraft Health Monitoring with Automatic Anomaly Detection Techniques S. Fuertes, G. Picart, French Space Agency (CNES), Toulouse, France; J. Tourneret, L. Chaari, University of Toulouse, Toulouse, France; A. Ferrari, C. Richard, University of Nice, Sophia Antipolis, Nice, France	1400 hrs AIAA-2016-2431 Human Centred Approach to Operations P. Turner, M. Fernandez, Eutelsat, Paris, France	1430 hrs AIAA-2016-2432 Log Novelty Detection System J. Martinez, Black Hat S.L., Cordoba, Spain; A. Donati, ESA, Darmstadt, Germany	1500 hrs AIAA-2016-2433 WebMUST Evolution J. Silva, Solenix GmbH, Darmstadt, Germany; A. Donati, ESA, Darmstadt, Germany
Tuesday, 17 May 2016			
44-GSCDP-10		GSCDP - Ground Communications	
Chaired by: K. SCHULZ, European Space Agency (ESA) -ESOC and A. BRANDT, INSYEN AG			
1330 hrs AIAA-2016-2434 A Case Study of the data down link methodology for Earth Observation Satellite A. Oniyama, PASCO CORPORATION, Tokyo, Japan	1400 hrs AIAA-2016-2435 A Time Domain based Playback User Interface for Voice Communication Systems in Mission Control Room Environments N. Schwien, F. Junge, M. Töpfer, German Aerospace Center (DLR), Berlin, Germany	1430 hrs AIAA-2016-2436 Wireless Sensor and Actuators Networks for Intra-Vehicle Applications C. Sergiou, V. Vassiliou, University of Cyprus, Nicosia, Cyprus; A. Bozic, Arachnobeaa, Limassol, Cyprus; C. Panagiotou, Cyprus Space Exploration Organization, Nicosia, Cyprus; A. Paphitis, Cyprus University of Technology, Limassol, Cyprus	1500 hrs AIAA-2016-2437 OpenSource based Voice Communication for Mission Control M. Töpfer, A. Sonnenberg, R. Kozlowski, German Aerospace Center (DLR), Berlin, Germany
Tuesday, 17 May 2016			
45-MDM-5		MDM - Mission Operations Computing	
Chaired by: T. LEVOIR, CNES and F. MUROLO, EUMETSAT			
1330 hrs AIAA-2016-2438 Python for Rapid Science Operations Analysis, Prototyping and Planning for BepiColombo J. McAuliffe, P. Lanaspá, ESA, Madrid, Spain	1400 hrs AIAA-2016-2439 Cost reduction in long-term space missions by facilitating and exploiting planned IT infrastructure upgrades F. Gotter, J. Pfau, CGI, Darmstadt, Germany; P. Darena, Mendel University, Brno, Czech Republic	1430 hrs AIAA-2016-2440 Model Based Functional Verification; Strengthening the Link between Testing and Operations S. Reid, A. Matthyssen, W. Heinen, RHEA System, Brussels, Belgium	1500 hrs AIAA-2016-2441 Mission Design and Analysis for FORMOSAT-7 Program F. Hwang, National Space Organization, Hsinchu, Taiwan
Tuesday, 17 May 2016			
46-OCFE-9		OCFE - Flight Operations II	
Chaired by: A. BOWMAN, Johns Hopkins University Applied Physics Laboratory and J. MORALES-SANTIAGO, ESA-ESOC			
1330 hrs AIAA-2016-2442 Dawn Ceres Mission: Science Operations Performance C. Polanskey, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; S. Joy, University of California, Los Angeles, Los Angeles, CA; C. Raymond, M. Rayman, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1400 hrs AIAA-2016-2443 S-NPP Risk Mitigation Maneuver Response Time Optimization via Pre-verified Maneuver Sequences J. Winsley, I. van Wesel, Arctic Slope Regional Corporation (ASRC), Beltsville, MD; S. Humphries, S. Nair, National Oceanic and Atmospheric Administration, Silver Spring, MD; G. Dixon, Arctic Slope Regional Corporation (ASRC), Beltsville, MD; S. Low, Stinger Ghaffarian Technologies, Inc., Greenbelt, MD; et al.	1430 hrs AIAA-2016-2444 Flying ESA's ultra-precise Gaia Mission D. Milligan, ESA, Darmstadt, Germany	
Tuesday, 17 May 2016			
47-PS-1		PS - Mission Planning and Scheduling Methods I	
Chaired by: M. WICKLER, DLR and N. PECCIA, European Space Agency (ESA) -ESOC			
1330 hrs AIAA-2016-2445 Research on Planning of Satellite-Ground Cooperating Missions Based on GNSS Constellation J. Li, G. Ye, Xi'an Satellite Control Center, Xi'an, China; T. Zhang, Xi'an Jiaotong University, Xi'an, China	1400 hrs AIAA-2016-2446 Space-ground TT&C Resource Integrated Scheduling Based on the Hybrid Ant Colony Optimization T. Zhang, Xi'an Jiaotong University, Xi'an, China; J. Li, J. Li, State Key Laboratory of Astronautic Dynamics, Xi'an, China; Y. Yang, Xi'an Jiaotong University, Xi'an, China; W. Du, State Key Laboratory of Astronautic Dynamics, Xi'an, China	1430 hrs AIAA-2016-2447 The Integrated Network Planning System (INPS) : Overview and Application of INPS for JAXA Ground Station Networks T. Adachi, Japan Aerospace Exploration Agency (JAXA), Ibaraki, Japan	1500 hrs AIAA-2016-2448 Coverage planning for agile EO Constellations using Ant Colony Optimisation E. Ntagiou, P. Palmer, University of Surrey, Guildford, United Kingdom; C. Iacopino, Surrey Satellite Technology, Ltd., Guildford, United Kingdom; N. Policella, A. Donati, ESA, Darmstadt, Germany

Tuesday, 17 May 2016			
48-NW-5 1530 - 1600 hrs	Tuesday Afternoon Coffee Break		Conference Room Foyer & Exhibition Hall
Tuesday, 17 May 2016			
49-GNC-2	GNC - Space Debris and Collision Avoidance I		Room 108
Chaired by: R. HARI SHANKAR and H. KRAG, European Space Agency (ESA) -ESOC			
1600 hrs AIAA-2016-2449 ESA's Modernised Collision Avoidance Service H. Krag, T. Flohrer, K. Merz, S. Lemmens, B. Bastida Virgili, Q. Funke, ESA, Darmstadt, Germany; et al.	1630 hrs AIAA-2016-2450 Collision Avoidance Operations of DEIMOS-1 and DEIMOS-2 Missions A. Mazzoleni, M. Luengo, J. Santos, A. Iturri, I. Bueno, P. Pisabarro, Deimos Imaging, Boecillo, Spain; et al.	1700 hrs AIAA-2016-2451 MICROSCOPE Operations : collision avoidance and de-orbitation of a non-maneuvering satellite E. Aitier, M. Team, French Space Agency (CNES), Toulouse, France	1730 hrs AIAA-2016-2452 Satellite co-location control strategy in COMS Y. Hwang, B. Lee, Electronics and Telecommunications Research Institute, Daejeon, South Korea
Tuesday, 17 May 2016			
50-GSCDP-12	GSCDP - Ground Network Implementation		Room 106
Chaired by: G. MORI, EUMETSAT and D. RICHTER, DLR			
1600 hrs AIAA-2016-2453 Deep Space Network – Paradigm Changes for Cost-Efficiency J. Statman, J. Berner, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1630 hrs AIAA-2016-2454 Implementation of the True Multi-mission Control Room at GSOC T. Singer, German Aerospace Center (DLR), Wessling, Germany	1700 hrs AIAA-2016-2455 Cluster Ground Segment Upgrade: Dealing with obsolescence to extend the mission even further T. Costa, LSE Space GmbH, Darmstadt, Germany; B. Teixeira De Sousa, ESA, Darmstadt, Germany; F. Rother, Telespazio, Darmstadt, Germany; A. Olchawa, SERCO GmbH, Darmstadt, Germany; B. Faridough, R. Steel, Telespazio, Darmstadt, Germany; et al.	
Tuesday, 17 May 2016			
51-OCFE-10	OCFE - Flight Operations III		Room 101
Chaired by: A. BOWMAN, Johns Hopkins University Applied Physics Laboratory and J. MORALES-SANTIAGO, ESA-ESOC			
1600 hrs AIAA-2016-2456 Realistic Covariance Generation for the S-NPP Spacecraft S. Nair, National Oceanic and Atmospheric Administration, Suitland, MD; M. Duncan, J. Wysack, SpaceNav, Boulder, CO; C. Kilzer, G. Dixon, R. Harpold, National Oceanic and Atmospheric Administration, Suitland, MD; et al.	1630 hrs AIAA-2016-2457 The Sentinel-1A LEOP: Paving the Way for the Sentinels LEOP Preparation and Execution I. Shurmer, ESA, Darmstadt, Germany	1700 hrs AIAA-2016-2458 Implementation of Thermal Gauging Method for ABS 1A (LM 3000) satellite B. Yendler, YSPM, LLC, Saratoga, CA; M. Myers, N. Chillemi, ABS Global, Hamilton, Bermuda; S. Chernikov, J. Wang, A. Djamshidpour, YSPM, LLC, Saratoga, CA	1730 hrs AIAA-2016-2459 Operational aspects of the TANDEM-X Science Phase E. Maurer, R. Kahle, F. Mrowka, G. Morfill, A. Ohndorf, S. Zimmermann, German Aerospace Center (DLR), Wessling, Germany
Tuesday, 17 May 2016			
52-OCFE-11	OCFE - Knowledge Management & Lessons Learned		Room 102
Chaired by: B. EDWARDS, NASA-Goddard Space Flight Center and G. GALET, CNES			
1600 hrs AIAA-2016-2460 The Challenge of Knowledge Preservation: the case of the ATV Control Centre R. Muggelisdow, M. Steinkopf, J. Bois, ESA, Noordwijk, The Netherlands	1630 hrs AIAA-2016-2461 Lessons Learned from the New Horizons July 4th Anomaly B. Bauer, A. Bowman, O. Custodio, G. Fountain, S. Hamilton, H. Hart, Johns Hopkins University Applied Physics Laboratory, Laurel, MD; et al.	1700 hrs AIAA-2016-2462 Experiences with Extra-Vehicular Activities in Response to Critical ISS Contingencies E. Van Cise, B. Kelly, J. Radigan, C. Cranmer, NASA Johnson Space Center, Houston, TX	
Tuesday, 17 May 2016			
53-PS-2	PS - Mission Planning and Scheduling Methods II		Room 103
Chaired by: V. NAZAROV, IKI RAN and B. TEIXEIRA DE SOUSA, European Space Agency (ESA)			
1600 hrs AIAA-2016-2463 Application of a Simplified Atmospheric Model to At-sensor Radiance Estimation for Satellite Imaging Planning G. Park, D. Shin, Satrec Initiative, Daejeon, South Korea	1630 hrs AIAA-2016-2464 Concept study of cloud observation system for operation of optical ground facility S. Inagawa, M. Takasu, Japan Aerospace Exploration Agency (JAXA), Ibaraki, Japan	1700 hrs AIAA-2016-2465 Innovative Approaches for the Planning and Scheduling Tool of COSMO-SkyMed Di Seconda Generazione T. Scopa, S. Mari, G. Valentini, G. De Luca, C. Fiorentino, Italian Space Agency (ASI), Rome, Italy; S. Serva, Italian Ministry of Defence, Rome, Italy	1730 hrs AIAA-2016-2466 Landsat 8: Mission Planning: Reducing Load Building Time, Increasing Efficiency and Accuracy via Process Automation. K. O'Connor, M. Fatig, A. Coleman, Honeywell International, Inc., Greenbelt, MD

Tuesday, 17 May 2016		
54-NW-6 1800 - 2030 hrs	Speed Mentoring and Cultural Dinner	Hanbit Tower
SYP Speed Mentoring and Cultural Dinner will be held in Hanbit Tower which is located adjacent to the Venue, the symbol of Daejeon City and Daedeak Science Complex.		
Speakers:		
Paolo Ferri ESA	Michael Schmidt ESA	Helene Pasquier CNES
Alice Bowman APL	Rafael Krawiec SSC	Cho Young Han KARI
		Sean Burns EUMETASAT
		Harry Shaw NASA/GSFC
		Phil Liebrecht NASA
		Bum S. Hyun KARI

Wednesday

Wednesday, 18 May 2016		
55-PLNRY-3 0830 - 1000 hrs	Space Situational Awareness	Grand Ballroom
Moderator: Holger Krag, Head, Space Debris Office, European Space Agency (ESA)		
Panelists:		
Gerhard Drolshagen Co-manager of the near-Earth object segment of ESA's Space Situational Awareness Programme The Netherlands	Diana McKissock Space Situational Awareness Sharing Lead, U.S. Joint Functional Component Command for Space Space Surveillance Division United States of America	Shinichi Nakamura Senior Administrator, International Relations and Research Department Japan Aerospace Exploration Agency (JAXA) Japan
		Daniel Oltrogge Space Data Center Program Manager & Sr. Research Astrodynamicist, Center for Space Standards (CSSI), Innovation Analytical Graphics Incorporated (AGI) United States of America
		Henry de Roquefeuil Lt General (ret), Military Adviser of the French Space Agency (CNES) President and the CNES Defence Team Coordinator France

Wednesday, 18 May 2016		
56-NW-7 1000 - 1030 hrs	Wednesday Morning Coffee Break	Grand Ballroom Foyer

Wednesday, 18 May 2016		
57-GNC-3	GNC - Flight Dynamics and Navigation II	Room 108
Chaired by: F. D'AMICO, Italian Space Agency - ASI and S. RHEE, KARI		
1030 hrs AIAA-2016-2467 TDRSS Augmentation Service for Satellites G. Heckler, C. Gramling, J. Valdez, P. Baldwin, NASA Goddard Space Flight Center, Greenbelt, MD	1100 hrs AIAA-2016-2468 CNES and ESOC Flight Dynamics Operational Experience on GALILEO First Nominal FOC Launch and Fine Positioning Activities L. Lorda, X. Pena, French Space Agency (CNES), Toulouse, France; F. Dreger, ESA, Darmstadt, Germany; P. Labourdette, E. Canalias, P. Broca, French Space Agency (CNES), Toulouse, France; et al.	1130 hrs AIAA-2016-2469 Pseudo and Full-Gyroless Operative Modes on Board of COSMO-SkyMed Mission G. De Luca, L. Fasano, M. Cardone, R. Loizzo, R. Carpentiero, L. De Angelis, Italian Space Agency (ASI), Rome, Italy; et al.

Wednesday, 18 May 2016		
58-GSCDP-13	GSCDP - Advanced Technologies for Space Operations VI	Room 105
Chaired by: V. NAVARRO, European Space Agency (ESA)		
1030 hrs AIAA-2016-2470 Applying Modern Web Technologies And a Database Oriented Method to Operations Preparation K. Koyal, Telespazio, Darmstadt, Germany; C. Krause, German Aerospace Center (DLR), Cologne, Germany	1100 hrs AIAA-2016-2471 Building a Ground M&C System with WebSocket – A New Way to Talk to an Antenna Y. Wasser, A. Hauke, German Aerospace Center (DLR), Wessling, Germany	1130 hrs AIAA-2016-2472 Feedback on IT virtualization experiment within the CNES operational Orbit Computation Center. M. Ould, French Space Agency (CNES), Toulouse, France
		1200 hrs AIAA-2016-2473 Reconfiguring operational satellite simulators behavior models with genetic programming J. Tominaga, M. Gonçalves Vieira Ferreira, A. Ambrosio, National Institute for Space Research (INPE), São José dos Campos, Brazil

Wednesday, 18 May 2016			
59-GSCDP-14	GSCDP - Ground Data Systems Development, Validation and Maintenance I		Room 106
Chaired by: J. DIFFERDING, NASA Ames Research Center and E. MELIN			
1030 hrs AIAA-2016-2474 The METERON Operations Environment and Robotic Services, a plug-and-play system infrastructure for Robotic experiments M. Cardone, ESA, Darmstadt, Germany; C. Laroque, Telespazio, Darmstadt, Germany; M. Sarkarati, K. Nergaard, P. Steele, S. Martin, ESA, Darmstadt, Germany	1100 hrs AIAA-2016-2475 The use of Model Based Engineering Methodologies in Complex Ground Data Systems A. Walsh, M. Pecchioli, ESA, Darmstadt, Germany; J. Carranza, ESA, Noordwijk, The Netherlands; P. Elsiepen, Telespazio, Darmstadt, Germany	1130 hrs AIAA-2016-2476 Issue Documents for Real-Time Remote Robotic Science Operations Support Tools: Observations from the Field H. Kim, Y. Park, NASA Ames Research Center, Moffett Field, CA; E. Baker, J. Adams, Vanderbilt University, Nashville, TN; T. Fong, NASA Ames Research Center, Moffett Field, CA	1200 hrs AIAA-2016-2477 Agile: From Software to Mission System J. Trimble, M. Shirley, S. Hobart, NASA Ames Research Center, Moffett Field, CA
Wednesday, 18 May 2016			
60-OCFE-12	OCFE - Fault Management Recovery I		Room 102
Chaired by: R. SCHEID and S. BURNS, EUMETSAT			
1030 hrs AIAA-2016-2478 The IOAG Recommendations On Spacecraft Emergency Cross Support W. Tai, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; T. Beck, ESA, Darmstadt, Germany; J. Soula, French Space Agency (CNES), Toulouse, France; F. D'Amico, Italian Space Agency (ASI), Rome, Italy; J. Levesque, Canadian Space Agency, Montréal, Canada; T. Shigeta, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan; et al.	1100 hrs AIAA-2016-2479 AMODS: Autonomous Mobile On-orbit Diagnostic System E. Hanlon, B. Keegan, B. Bailin, J. Kang, U.S. Naval Academy, Annapolis, MD	1130 hrs AIAA-2016-2480 Coping with Complexity and Systems Challenges in Safety and Reliability Management for Satellite Operations H. Gloeckner, C. Arbinger, German Aerospace Center (DLR), Wessling, Germany	1200 hrs AIAA-2016-2481 OPS-SAT: FDIR Design on a Mission that Expects Bugs - and Lots of Them D. Evans, ESA, Darmstadt, Germany
Wednesday, 18 May 2016			
61-OCFE-13	OCFE - Mission Ops Concept I		Room 101
Chaired by: M. SQUIRE, NASA			
1030 hrs AIAA-2016-2482 Lunar Prospecting: Searching for Volatiles at the South Pole J. Trimble, C. Robert, NASA Ames Research Center, Moffett Field, CA	1100 hrs AIAA-2016-2483 Mars Cube One (MarCO) Shifting the Paradigm in Relay Deep Space Operation S. Asmar, S. Matousek, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1130 hrs AIAA-2016-2484 The Copernicus/Sentinels Common Flight Operations Segment: From Design to In-Flight Experience J. Morales-Santiago, P. Emanuelli, ESA, Darmstadt, Germany; P. Bargellini, ESA, Frascati, Italy	1200 hrs AIAA-2016-2485 Fight Operations Preparation for the BepiColombo Mission to Mercury: Concepts and Challenges C. Steiger, E. Montagnon, A. Accomazzo, ESA, Darmstadt, Germany
Wednesday, 18 May 2016			
62-PS-3	PS - Mission Planning and Scheduling Methods III		Room 103
Chaired by: H. SHAW and N. PECCIA, European Space Agency (ESA) -ESOC			
1030 hrs AIAA-2016-2486 Rosetta 3dtool - a web-based application for science planning S. Völk, German Aerospace Center (DLR), Oberpfaffenhofen, Germany; A. Schmidt, B. Grieger, ESA, Villanueva de la Cañada, Spain	1100 hrs AIAA-2016-2487 PHILAE Lander: a scheduling challenge P. Gaudon, V. Lafaïlle, A. Moussi-Softys, C. Delmas, French Space Agency (CNES), Toulouse, France	1130 hrs AIAA-2016-2488 The Evolution of Rosetta-Philae Science Planning Processes Following the Philae Landing M. Ashman, M. Almeida, M. Barthelemy, M. Costa, J. Garcia, R. Hoofs, ESA, Madrid, Spain; et al.	1200 hrs AIAA-2016-2489 Science Data Volume management for the Rosetta spacecraft M. Pérez-Ayúcar, M. Almeida, M. Ashman, ESA, Madrid, Spain; S. Chien, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; M. Costa, R. Hoofs, ESA, Madrid, Spain; et al.
Wednesday, 18 May 2016			
63-SSCSO-1	SSCSO - SmallSat Missions & Operations I		Room 107
Chaired by: H. PASQUIER, CNES and D. ABRAHAM, Jet Propulsion Laboratory			
1030 hrs AIAA-2016-2490 OPS-SAT: Preparing for the Operations of ESA's First NanoSat D. Evans, ESA, Darmstadt, Germany	1100 hrs AIAA-2016-2491 MarCO: Interplanetary Mission Development On a CubeSat Scale J. Schoolcraft, A. Klesh, T. Werne, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1130 hrs AIAA-2016-2492 Maneuverable Microsatellites: The Skybox Case Study C. MacLachlan, Google, Mountain View, CA	1200 hrs AIAA-2016-2493 Mission Analysis and CubeSat Design for CANYVAL-X mission J. Park, S. Park, K. Lee, H. Oh, K. Choi, Y. Song, Yonsei University, Seoul, South Korea; et al.

Wednesday, 18 May 2016			
64-LUNCH-3 1230 - 1330 hrs	Wednesday Lunch		Exhibition Hall
Wednesday, 18 May 2016			
65-GNC-4	GNC - Space Debris and Collision Avoidance II		Room 108
Chaired by: R. D'AURIA, ALTEC S.p.A. and S. LEE, KARI			
1330 hrs AIAA-2016-2494 How to Detect Close Conjunctions Events with High Accuracy and Ten Days In Advance F. Jiménez, GMV, Tres Cantos, Spain	1400 hrs AIAA-2016-2495 Modeling on Orbits of Fragmentation Debris in GEO and Their Origin Identification S. Ikeda, T. Tajima, J. Abe, I. Matsuda, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan	1430 hrs AIAA-2016-2496 Space Debris Removal R. Hari Shankar, Indira Gandhi National Open University, Pudukcherry, India	1500 hrs AIAA-2016-2497 Preliminary analysis of data product of a Korean optical space surveillance system (OWL-Net) J. Choi, J. Jo, Korea Astronomy and Space Science Institute, Daejeon, South Korea
Wednesday, 18 May 2016			
66-GSCDP-15	GSCDP - Ground Data Systems Development, Validation and Maintenance II		Room 106
Chaired by: V. NAVARRO, European Space Agency (ESA) and E. MELIN			
1330 hrs AIAA-2016-2498 Ground segment infrastructure evolution and consequent development of next generation monitoring and control tool S. De Padova, N. Pfeil, R. Southworth, F. Milcent, ESA, Darmstadt, Germany	1400 hrs AIAA-2016-2499 Hidden costs of unsupported software, obsolescence and non standards; the importance and value of a multi-mission software program. B. Giovannoni, C. Boyles, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA		
Wednesday, 18 May 2016			
67-GSCDP-16	GSCDP - Ground Segment Architectures and Design I		Room 105
Chaired by: M. PECCHIOLI, European Space Agency (ESA) -ESOC and T. ESDAR, EUMETSAT			
1330 hrs AIAA-2016-2500 Modeling systems-of-systems interfaces with SysML P. Shames, M. Sarrel, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; S. Friedenthal, SAF Consulting, Reston, VA	1400 hrs AIAA-2016-2501 Mini-micro Control Center: building of a great product line based on simple functions L. Arnaud, French Space Agency (CNES), Toulouse, France	1430 hrs AIAA-2016-2502 A Structured, Model-Based Systems Engineering Methodology for Operations System Design D. Bindschadler, C. Valerio, R. Smith, K. Schimmels, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	
Wednesday, 18 May 2016			
68-LRBO-1	LRBO - Launch Vehicle Ground Operations		Room 104
Chaired by: C. CRUZEN, NASA Marshall Space Flight Center and A. SCHMIDT, German Aerospace Center			
1330 hrs AIAA-2016-2503 The test centre Lampoldshausen and its role in Ariane 6 and beyond A. Frank, German Aerospace Center (DLR), Lampoldshausen, Germany; D. Regenbrecht, German Aerospace Center (DLR), Bonn, Germany	1400 hrs AIAA-2016-2504 The Ground Segment and Operations of ESA's Intermediate eXperimental Vehicle (IXV) G. Billig, ESA, Darmstadt, Germany; J. Gallego, ESA, Paris, France; G. Santoro, Thales Group, Turin, Italy; A. Bellomo, I. Musso, G. Martucci, ALTEC S.p.A., Turin, Italy; et al.	1430 hrs AIAA-2016-2505 Establishing a Launch Facility for Small Satellites at Erange, Sweden A. Ytterskog, A. Rathsmann, P. Hyvönen, Swedish Space Corporation, Solna, Sweden	

Wednesday, 18 May 2016			
69-OCFE-14	OCFE - Fault Management Recovery II		Room 102
Chaired by: S. BURNS, EUMETSAT and R. SCHEID			
1330 hrs AIAA-2016-2506 GALILEO 5 and 6 LEOP or How to Handle and Recover Two of the Most Feared Failures Occurring Simultaneously. H. Côme, ESA, Darmstadt, Germany; J. Benoist, French Space Agency (CNES), Toulouse, France; L. Stefanov, ESA, Darmstadt, Germany; T. Medina, French Space Agency (CNES), Toulouse, France; T. Cowell, SciSys, Darmstadt, Germany; T. Dosogne, French Space Agency (CNES), Toulouse, France; et al.	1400 hrs AIAA-2016-2507 Automated on-ground FDIR for ESA's XMM-Newton mission T. Godard, RHEA System, Darmstadt, Germany; U. Weissmann, L. Toma, Telespazio, Darmstadt, Germany; W. Zur Borg, K. Yeung, RHEA System, Darmstadt, Germany; M. Kirsch, ESA, Darmstadt, Germany		
Wednesday, 18 May 2016			
70-OCFE-15	OCFE - Mission Ops Concept II		Room 101
Chaired by: M. SQUIRE, NASA			
1330 hrs AIAA-2016-2508 A Robot on the Operator's Chair – The Fine Line Between Automated Routine Operations and Situational Awareness J. Scharringhausen, A. Kolbeck, T. Beck, German Aerospace Center (DLR), Oberpfaffenhofen, Germany	1400 hrs AIAA-2016-2509 Rosetta Lander: On-Comet Operations Execution and Recovery after the Unexpected Landing K. Geurts, Telespazio, Darmstadt, Germany; C. Fantinati, S. Ulamec, R. Willnecker, German Aerospace Center (DLR), Cologne, Germany	1430 hrs AIAA-2016-2510 Specific challenges on Mission Data Systems for the EXOMARS mission C. Laroque, Telespazio, Darmstadt, Germany; P. Schmitz, ESA, Darmstadt, Germany; P. Choukroun, T. Dathe, Telespazio, Darmstadt, Germany; G. Larsen, Terma, Darmstadt, Germany	
Wednesday, 18 May 2016			
71-PS-4	PS - Planning and Scheduling Systems I		Room 103
Chaired by: A. COLEMAN and P. VAN DER PLAS, European Space Agency (ESA) -ESTEC			
1330 hrs AIAA-2016-2511 Discretized Genetic Algorithm for satellite constellation and multiple ground antenna scheduling H. Ko, DigitalGlobe, Inc., Longmont, CO	1400 hrs AIAA-2016-2512 MAPPS: a Science Planning tool supporting the ESA Solar System Missions P. Van Der Plas, ESA, Noordwijk, The Netherlands	1430 hrs AIAA-2016-2513 Reusable Planning and Scheduling Tool for SPPSS: Public Operation Service D. Li, Y. Gu, Harbin Institute of Technology, Harbin, China; B. Meng, Chinese Academy of Sciences, Beijing, China	1500 hrs AIAA-2016-2514 AlphaSat TDP operations coordination via Automated Planning: An Operational Experience Report N. Policella, E. Benzi, ESA, Darmstadt, Germany
Wednesday, 18 May 2016			
72-SSCSO-2	SSCSO - SmallSat Missions & Operations II		Room 107
Chaired by: Z. MOUNZER, Telespazio VEGA Deutschland GmbH and D. EVANS, European Space Agency (ESA) -ESOC			
1330 hrs AIAA-2016-2515 PROBA: Through smart operations - small satellites can be great S. Ilsen, D. Gerrits, J. Naudet, QinetiQ, Kruibekke, Belgium; E. Tilmans, C. Bajjat, K. Mellab, ESA, Noordwijk, The Netherlands; et al.	1400 hrs AIAA-2016-2516 Nayif-1: UAE's first CubeSat mission I. Al Qasim, F. Lootah, H. Almatroushi, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates; H. Ali, M. Sharif, K. Al Mheiri, American University of Sharjah, Sharjah, United Arab Emirates; et al.	1430 hrs AIAA-2016-2517 Kibo's contribution to broadening the possibilities for Micro-Satellite H. Akagi, M. Takata, H. Watanabe, T. Sano, K. Oikawa, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan	
Thursday			
Thursday, 19 May 2016			
73-PLNRY-4 0830 - 1000 hrs	The Space Internet and the Future of Space Communications		Grand Ballroom
Moderator: Badri Younes, Deputy Associate Administrator, Space Communications and Navigation (SCaN), NASA			
Panelists:			
Jean-François Fenech Chief Executive Officer Eutelsat Asia	James Hinds Director, Airbus Defence and Space UK	Klaus-Juergen Schulz Head of the Ground Station Systems Division, European Space Agency (ESA)/European Space Operations Center (ESOC) in Darmstadt, Germany	Hojin Lee Electronics and Telecommunications Research Institute (ETRI), Korea

Thursday, 19 May 2016			
74-NW-8 1000 - 1030 hrs	Thursday Morning Coffee Break		Grand Ballroom Foyer
Thursday, 19 May 2016			
75-GNC-5	GNC - Flight Dynamics and Navigation III		Room 108
Chaired by: C. SCHIFF and H. YOON, KARI			
1030 hrs AIAA-2016-2518 Case Study of Exceptional Conditions in Precision Orbit Determination of KOMPSAT Series for Robustness and Timeliness H. Kim, O. Jung, H. Yim, S. Ahn, Korea Aerospace Research Institute, Daejeon, South Korea	1100 hrs AIAA-2016-2519 Satellite Orbit Prediction for Mission Operation Using Satellite Laser Ranging Only Y. Kim, E. Park, H. Lim, Korea Astronomy and Space Science Institute, Daejeon, South Korea	1130 hrs AIAA-2016-2520 Performance Analysis of LEO object Tracking Using Mono-static And Bi-static Radar K. Yu, University of Science and Technology, Daejeon, South Korea; D. Chung, D. Kim, J. Bok, Korea Aerospace Research Institute, Daejeon, South Korea	1200 hrs AIAA-2016-2521 Operational Validation of Precise Orbit Determination for ALOS-2 K. Akiyama, H. Itoh, H. Masuda, S. Kasho, T. Sakamoto, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan
Thursday, 19 May 2016			
76-GSCDP-17	GSCDP - Ground Segment Architectures and Design II		Room 105
Chaired by: J. STATMAN, Jet Propulsion Laboratory			
1030 hrs AIAA-2016-2522 Laser Communication in Space: The Ground System Design of TDP-1 and its current operational experience G. Rossmannith, S. Kuhlmann, M. Hobsch, B. Grischekhin, German Aerospace Center (DLR), Oberpfaffenhofen, Germany	1100 hrs AIAA-2016-2523 Traffic Modeling for Deep Space Network in the Human Exploration Era K. Cheung, D. Abraham, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; M. Sanchez, Massachusetts Institute of Technology, Cambridge, MA; K. Tran, C. Lee, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1130 hrs AIAA-2016-2524 Ground Architecture Transformation at NESDIS S. Petersen, National Oceanic and Atmospheric Administration, Silver Spring, MD	
Thursday, 19 May 2016			
77-GSCDP-18	GSCDP - On-Board/Ground Interfaces		Room 106
Chaired by: M. PECCHIOLO, European Space Agency (ESA) -ESOC and M. SCHMIDHUBER, DLR/GSOC Mission Operations			
1030 hrs AIAA-2016-2525 Reliable Commanding and Telemetry Operations Using CFDP E. Melin, C. Krupiarz, C. Monaco, N. Pinkine, P. Harrington-Duff, Johns Hopkins University Applied Physics Laboratory, Laurel, MD	1100 hrs AIAA-2016-2526 POCKET Housekeeping Telemetry Compression: Ready to Fly D. Evans, ESA, Darmstadt, Germany; O. Châtelain, SPACEBEL, Liege, Belgium	1130 hrs AIAA-2016-2527 Seeking of a way to use file based operation on Korea lunar explorer C. Koo, C. Kim, D. Rew, Korea Aerospace Research Institute, Daejeon, South Korea	
Thursday, 19 May 2016			
78-LRBO-2	LRBO - Launch Vehicle Development Programs		Room 104
Chaired by: A. DELUNA, ATDL, Inc. and K. SCHÜTTAUF, German Aerospace Center (DLR)			
1030 hrs AIAA-2016-2528 Vega Operations: Transition to Commercial Operations and New Developments D. Nicolini, ESA, Frascati, Italy	1100 hrs AIAA-2016-2529 NASA's Space Launch System Marks Critical Design Review C. Singer, NASA Marshall Space Flight Center, Huntsville, AL	1130 hrs AIAA-2016-2530 Space Launch Vehicle Development in Korea Aerospace Research Institute J. Ko, S. Cho, Korea Aerospace Research Institute, Daejeon, South Korea	1200 hrs AIAA-2016-2531 H3 Launch Vehicle Development Concept of Operations S. Mori, A. Saito, M. Arito, M. Okada, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan; A. Sato, M. Niitsu, Mitsubishi Heavy Industries, Ltd., Nagoya, Japan; et al.
Thursday, 19 May 2016			
79-OCFE-16	OCFE - Mission Ops Concept III		Room 101
Chaired by: G. GALET, CNES and T. SORENSEN, University of Hawaii at Manoa			
1030 hrs AIAA-2016-2532 Adaptation of operations and energy management for CNES SPOT5 after solar array partial dysfunction S. Pierre, French Space Agency (CNES), Toulouse, France	1100 hrs AIAA-2016-2533 Food Production in Space – Operating a Greenhouse in Low Earth Orbit D. Schulze, German Aerospace Center (DLR), Wessling, Germany; C. Philpot, German Aerospace Center (DLR), Bremen, Germany; G. Morfill, B. Klein, T. Beck, German Aerospace Center (DLR), Wessling, Germany	1130 hrs AIAA-2016-2534 File Based Approach for In-orbit Update of Flight Software J. Lee, H. Park, S. Pyo, Satrec Initiative, Daejeon, South Korea	1200 hrs AIAA-2016-2535 LISA Pathfinder and X-Band Telemetry, Telecommand and Tracking Support In Near-Earth Phase F. Delhaise, D. Firre, G. Ravera, I. Harrison, A. Rudolph, ESA, Darmstadt, Germany; G. Lorenzo, Vitrociset, Darmstadt, Germany; et al.

Thursday, 19 May 2016			
80-OCFE-17	OCFE - Payload Ops Concept I		Room 102
Chaired by: E. AITIER and A. BOWMAN, Johns Hopkins University Applied Physics Laboratory			
1030 hrs AIAA-2016-2536 Meteosat SEVIRI Performance Characterisation and Calibration with Dedicated Moon/Sun/Deep-space Scans C. Tranquilli, B. Viticchiè, S. Pessina, T. Hewison, J. Müller, S. Wagner, EUMETSAT, Darmstadt, Germany	1100 hrs AIAA-2016-2537 Preparing and Implementing the New Horizons Uplink Occultations: Applying Concepts, Tools, and Lessons Learned Over Nearly a Decade of Flight to Achieve a Successful Operation R. Sepan, Johns Hopkins University Applied Physics Laboratory, Laurel, MD; I. Baker, Deep Space Network, Monrovia, CA; I. Linscott, Stanford University, Stanford, CA; K. Oudrhiri, Deep Space Network, Monrovia, CA; M. Vincent, Southwest Research Institute, Boulder, CO	1130 hrs AIAA-2016-2538 Rosetta: rapid science operations for a dynamic comet M. Costa, Telespazio, Villanueva de la Cañada, Spain; M. Pérez, Aurora Technology, Villanueva de la Cañada, Spain; M. Almeida, M. Ashman, Telespazio, Villanueva de la Cañada, Spain; R. Hoofs, ESA, Madrid, Spain; S. Chien, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; et al.	1200 hrs AIAA-2016-2539 Restoration of the Autofocus capability of the ChemCam instrument onboard the Curiosity rover L. Peret, ATOS, Toulouse, France; O. Gasnault, Research Institute in Astrophysics and Planetology (IRAP), Toulouse, France; R. Dingler, Los Alamos National Laboratory, Los Alamos, NM; Y. Langevin, Paris-Sud University, Orsay, France; S. Bender, Los Alamos National Laboratory, Los Alamos, NM; D. Blaney, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; et al.
Thursday, 19 May 2016			
81-PS-5	PS - Planning and Scheduling Systems II		Room 103
Chaired by: M. WICKLER, DLR and A. COLEMAN			
1030 hrs AIAA-2016-2540 CCSDS compliant Ground Network Schedule Interfaces from an ESA perspective H. Dreihahn, C. Haddow, M. Unal, ESA, Darmstadt, Germany	1100 hrs AIAA-2016-2541 New Horizons DataTrack Tool for Playback Planning and Sequencing E. Birath, Southwest Research Institute, Boulder, CO; B. Carcich, Latchmoor Services, LLC, Williamsburg, VA; Z. Dischner, T. Finley, A. Harch, B. Enke, Southwest Research Institute, Boulder, CO; et al.	1130 hrs AIAA-2016-2542 The Development of Mission Planning Tool for Thailand's Earth Observation Mission W. Vongsantivanich, S. Chaimatanan, P. Tangpattanakul, Geo-Informatics and Space Technology Development Agency, Chonburi, Thailand	
Thursday, 19 May 2016			
82-SSCSO-3	SSCSO - Ground Segment Systems & Networks for SmallSats I		Room 107
Chaired by: H. PASQUIER, CNES and O. KEGEGE			
1030 hrs AIAA-2016-2543 Preparing for Operations of a MicroSatellite Constellation; Mission Concepts and Mission Operations Tools to Facilitate Daily Constellation Operations D. Rose, J. Redfern, Z. Dischner, M. Vincent, R. Rose, Southwest Research Institute, Boulder, CO; C. Ruf, University of Michigan, Ann Arbor, Ann Arbor, MI; et al.	1100 hrs AIAA-2016-2544 Constellations Research using simulated FLP-based Satellites J. Eichhoff, K. Klemich, U. Mohr, University of Stuttgart, Stuttgart, Germany; A. Armitage, Terma, Leiden, The Netherlands	1130 hrs AIAA-2016-2545 A Ground Segment for Small Satellite Operations in a University Context Combining Professional and Custom Software Tools K. Klemich, N. Bucher, M. Böttcher, J. Braun, S. Hilpert, S. Klinkner, University of Stuttgart, Stuttgart, Germany; et al.	
Thursday, 19 May 2016			
83-LUNCH-4 1230 - 1330 hrs	Thursday Lunch		Exhibition Hall

Thursday, 19 May 2016			Exhibition Hall
1230 - 1600 hrs		Posters	
84-PSTR-3 CSIS - Posters Chaired by: J. SOULA, CNES and M. DOYON, Canadian Space Agency	AIAA-2016-2546 Efficient development procedure for Copernicus Contributing Mission J. Han, Y. Jeon, Satrec Initiative, Daejeon, South Korea	AIAA-2016-2547 Space internet development for Korean lunar exploration J. Jo, B. Lee, J. Ahn, Electronics and Telecommunications Research Institute, Daejeon, South Korea	
85-PSTR-5 GNC - Posters Chaired by: B. KIM, Korea Aerospace Research Institute	AIAA-2016-2548 Covariance Analysis and Its Impact on the Operational Conjunction Assessment H. Yim, O. Jung, H. Kim, S. Ahn, Korea Aerospace Research Institute, Daejeon, South Korea	AIAA-2016-2549 Development of AESA radar simulator for space observation using GEDAE C. Cho, Sejong University, Seoul, South Korea; M. Choi, H. Min, Olzetek, Inc., Daejeon, South Korea; E. Kim, Sejong University, Seoul, South Korea	AIAA-2016-2550 Consideration about Wide Area DGPS with carrier phase measurements Y. Yoon, University of Science and Technology, Daejeon, South Korea; G. Nam, J. Choi, M. Heo, Korea Aerospace Research Institute, Daejeon, South Korea
	AIAA-2016-2551 Design of Passive Magnetic Attitude Control System of Swayam S. Barve, S. Vijay, College of Engineering Pune, Pune, India; O. Chougule, Indian Institute of Technology Madras, Chennai, India; M. Bondre, J. Deshpande, D. E. Shaw & Co., Hyderabad, India; S. Gaikwad, Credit Suisse, Pune, India; et al.	AIAA-2016-2552 Optimized Fuzzy-Quaternion Attitude control of Satellite in Large maneuver H. Ghadiri, M. Sadeghi, Space Research Institute, Tehran, Iran; A. Abaspour, Wichita State University, Wichita, KS; R. Esmaelzadeh, Technology Development University Holding, Tehran, Iran	AIAA-2016-2553 CMGs-Based Steering Law Design for High Attitude Stability and Quick Attitude Maneuver Agile Satellite L. Yu, China Aerospace Science and Technology Corporation (CASC), Beijing, China
	AIAA-2016-2554 KhalfiaSats Flight Control Software O. Hussain, A. AlSayegh, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates	AIAA-2016-2555 Evolution of Space Flight Dynamics Operation for KOMPSAT Series: Lessons Learned O. Jung, H. Yim, Korea Aerospace Research Institute, Daejeon, South Korea	
86-PSTR-6 HSO - Posters Chaired by: T. MUELLER, DLR	AIAA-2016-2556 Spacecraft Operator Training with Virtual Team MATES J. Pfau, S. Schuenemann, M. Morgan, CGI, Darmstadt, Germany	AIAA-2016-2557 Permanent Multipurpose Module: past experience, current achievements and future objectives of an actual operational mission. M. Cencetti, M. Deffacis, M. Trichilo, ALTEC S.p.A., Turin, Italy; M. Crisconio, Italian Space Agency (ASI), Rome, Italy	
87-PSTR-7 MDM - Posters Chaired by: T. LEVOIR, CNES and A. AMADOR, JPL	AIAA-2016-2558 Traveling Between the Earth-Moon Lagrangian Points and the Earth G. Oliveira, Federal Center for Technological Education of Minas Gerais, Belo Horizonte, Brazil; A. Prado, D. Sanchez, National Institute for Space Research (INPE), São José dos Campos, Brazil; V. Gomes, São Paulo State University - FEG/UNESP, Guaratinguetá, Brazil	AIAA-2016-2559 OPS-SAT: Designing a Mission from the Ground Upwards D. Evans, ESA, Darmstadt, Germany	
88-PSTR-8 OCFE - Posters Chaired by: S. ASMAR, Jet Propulsion Laboratory	AIAA-2016-2560 Relieving the negative effects of shift working H. Baek, Y. Kim, Y. Kim, M. Kim, S. Ahn, Korea Aerospace Research Institute, Daejeon, South Korea; S. Lee, Chungnam National University, Daejeon, South Korea	AIAA-2016-2561 Spacecraft Recovery Operations Conducted to the Galileo FOC-1 N. Carlier, German Aerospace Center (DLR), Munich, Germany	AIAA-2016-2562 The orbit maintenance and maneuver of ASNARO satellite Y. Tamaru, K. Miyashita, T. Fukunaga, A. Oniyama, M. Yamasaki, PASCO CORPORATION, Tokyo, Japan
	AIAA-2016-2563 End of life propellant estimation using heating time constants of the tanks O. Mendez, Eutelsat, Mexico, Mexico	AIAA-2016-2564 Determining if the Root Cause of an Anomaly is a Single Event Upset L. Sedares, Arctic Slope Regional Corporation (ASRC), Beltsville, MD; R. Redmon, J. Rodriguez, National Oceanic and Atmospheric Administration, Boulder, CO; B. Nowak, National Oceanic and Atmospheric Administration, Suitland, MD; A. Galvan, National Oceanic and Atmospheric Administration, Beltsville, MD	AIAA-2016-2565 MSG-4 In-Orbit Storage: early experience P. Pili, L. Matheson, F. Murolo, S. Pessina, EUMETSAT, Darmstadt, Germany
	AIAA-2016-2566 DEIMOS-2: Early Life Operations Experience M. Luengo, A. Mazzoleni, F. Bravo, P. Pisabarro, F. Pirandini, Deimos Imaging, Boecillo, Spain; H. Lee, Satrec Initiative, Daejeon, South Korea; et al.	AIAA-2016-2567 A dedicated End-to-End Simulator for Euclid Instrument Operations A. Gregorio, E. Romelli, P. Battaglia, University of Trieste, Trieste, Italy; G. Buenadicha, ESA, Villanueva de la Cañada, Spain; R. Franco, ESA, Noordwijk, The Netherlands	

Poster sessions continue on the next page.

Thursday, 19 May 2016			
1230 - 1600 hrs		Exhibition Hall	
Posters, continued			
89-PSTR-9 PS - Posters Chaired by: N. PECCIA, European Space Agency (ESA) -ESOC	AIAA-2016-2568 GSOC SoE-Editor 2.0 – A Generic Sequence of Events Tool J. Hartung, R. Nibler, German Aerospace Center (DLR), Wessling, Germany; C. Peat, Heavens-Above GmbH, Munich, Germany; A. Spärl, M. Wörle, C. Lenzen, German Aerospace Center (DLR), Wessling, Germany	AIAA-2016-2569 A Proposal to Improve the INPE Satellite Control by Using Planning and Replanning Strategies from Artificial Intelligence Area E. Ribeiro, M. Gonçalves Vieira Ferreira, National Institute for Space Research (INPE), São José dos Campos, Brazil	AIAA-2016-2570 The mission planning in urgent condition for satellite operation J. Park, Satrec Initiative, Daejeon, South Korea
	AIAA-2016-2571 Evolving the Operations of the TerraSAR-X / TanDEM-X Mission Planning System during the TanDEM-X Science Phase F. Stathopoulos, G. Guillermin, C. Garcia Acero, K. Reich, LSE Space GmbH, Wessling, Germany; F. Mrowka, German Aerospace Center (DLR), Wessling, Germany	AIAA-2016-2572 Multi-sensor Information Integrating System for Earth Observing Satellite Based on Influence Diagram and BCD Model L. He, C. Li, Y. Chen, L. Xing, National University of Defense Technology, Changsha, China	AIAA-2016-2573 Software design of autonomous mission planning for new imaging satellite Y. He, L. Xing, Y. Chen, National University of Defense Technology, Changsha, China
90-PSTR-10 SSCSO - Posters Chaired by: H. PASQUIER, CNES	AIAA-2016-2574 Construction of University Ground Station Using S-Band for Cubesat K. Kwon, D. Cho, S. Lee, H. Chung, Republic of Korea Air Force Academy, Cheongju, South Korea; M. Kim, H. Baek, Asia Pacific Aerospace, Inc., Seoul, South Korea	AIAA-2016-2575 Material Selection and Characterization to Optimize On Orbit Performance of Swayam B. Prabhune, T. Katke, A. Rathod, A. Kothawala, S. Singare, A. Marne, College of Engineering Pune, Pune, India; et al.	AIAA-2016-2576 Direct Tasking Operation Design for SpaceEye-X System S. Park, S. Pyo, S. Lee, J. Yun, H. Lee, Satrec Initiative, Daejeon, South Korea
	AIAA-2016-2577 Implementation & Performance Evaluation of Forward Error Correction Scheme on an Embedded System for Pico Satellite Mission G. Baj, A. Songerwala, V. Desai, A. Kulkarni, S. Desai, S. Pable, College of Engineering Pune, Pune, India; et al.		

Thursday, 19 May 2016				
91-GSCDP-19		GSCDP - Ground Segment Architectures and Design III		Room 105
Chaired by: M. MERRI, European Space Agency (ESA) and D. BINDSCHADLER, Jet Propulsion Laboratory				
1330 hrs AIAA-2016-2578 Virtualization of the Columbus Control Room Infrastructure N. Trebbin, German Aerospace Center (DLR), Wessling, Germany	1400 hrs AIAA-2016-2579 Big Data Technology in the service of Gaia's billion stars processing V. Valette, French Space Agency (CNES), Toulouse, France	1430 hrs AIAA-2016-2580 Enhancing test automation of ground data systems through direct access to the User Interfaces E. Gomez Gomez, ESA, Darmstadt, Germany; B. Semke, etamax space GmbH, Braunschweig, Germany; S. Mohacs, ATOS, Vienna, Austria	1500 hrs AIAA-2016-2581 User Oriented Ground System for ASNARO Project R. Kasai, T. Fukunaga, A. Oniyama, M. Yamasaki, PASCO CORPORATION, Tokyo, Japan	

Thursday, 19 May 2016				
92-GSCDP-20		GSCDP - Ground System Engineering I		Room 106
Chaired by: D. FISCHER, European Space Agency (ESA) -ESOC and N. PERERA, DLR				
1330 hrs AIAA-2016-2582 The Future European Space Automation Domain N. Salor Moral, S. Dionisi, Vitrociset, Transinne, Belgium	1400 hrs AIAA-2016-2583 Doing the Same – But Differently Plug & Play Solutions for Ground System Operations A. Hauke, German Aerospace Center (DLR), Wessling, Germany; E. Barkasz, German Aerospace Center (DLR), Weilheim, Germany; M. Gnat, U. Haering, German Aerospace Center (DLR), Wessling, Germany; M. Lantschner, K. Wiedemann, German Aerospace Center (DLR), Weilheim, Germany	1430 hrs AIAA-2016-2584 Multi-Mission Elements and their use in Enhanced Management Reporting at EUMETSAT C. Cocchiara, T. Edwards, EUMETSAT, Darmstadt, Germany		

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93-LRBO-3	LRBO - Launch Vehicle Systems I		Room 104
Chaired by: J. MONREAL, European Space Agency (ESA) and A. DELUNA, ATDL, Inc.			
1330 hrs AIAA-2016-2585 Enabling Science and Deep Space Exploration Through Space Launch System Secondary Payload Opportunities J. Singer, G. Norris, J. Pelfrey, NASA Marshall Space Flight Center, Huntsville, AL	1400 hrs AIAA-2016-2586 Multifunction Rocket System Development based on Advanced Hybrid Propulsion Y. Chen, R. Cheng, H. Chang, F. Hwang, National Space Organization, Hsinchu, Taiwan; A. Lai, J. Lin, National Chiao Tung University, Hsinchu, Taiwan; et al.	1430 hrs AIAA-2016-2587 System Design of Enhanced Epsilon Launch Vehicle T. Imoto, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan	1500 hrs AIAA-2016-2588 NASA Space Flight Vehicle Fault Isolation Challenges C. Bramon, J. Neeley, K. Inman, NASA Marshall Space Flight Center, Huntsville, AL; L. Tuttle, NASA Kennedy Space Center, Cape Canaveral, FL; J. Jones, NASA Marshall Space Flight Center, Huntsville, AL
Thursday, 19 May 2016			
94-OCFE-18	OCFE - Mission Ops Concept IV		Room 101
Chaired by: W. TAI, Jet Propulsion Laboratory and D. MILLIGAN, European Space Agency (ESA) -ESCOC			
1330 hrs AIAA-2016-2589 EPS-SG Operational Scenarios and System modelled in CORE F. Perlik, EUMETSAT, Darmstadt, Germany; C. Garcia Monteiro, Callisto Limited, Gloucestershire, United Kingdom; R. Dyer, EUMETSAT, Darmstadt, Germany	1400 hrs AIAA-2016-2590 A Day in the Life of the Laser Communications Relay Demonstration Project B. Edwards, D. Israel, A. Caroglanian, J. Spero, NASA Goddard Space Flight Center, Greenbelt, MD		
Thursday, 19 May 2016			
95-OCFE-19	OCFE - Payload Ops Concept II		Room 102
Chaired by: J. MORALES-SANTIAGO, ESA-ESOC and A. BOWMAN, Johns Hopkins University Applied Physics Laboratory			
1330 hrs AIAA-2016-2591 Science Operations Planning Concept for BepiColombo Mercury Planetary Orbiter S. de la Fuente, J. McAuliffe, M. Casale, European Space Astronomy Centre, Villanueva de la Cañada, Spain	1400 hrs AIAA-2016-2592 InSight: the Challenges of operating a seismometer on Mars C. Yana, A. Moussi-Soffys, French Space Agency (CNES), Toulouse, France; E. Gaudin, ATOS, Toulouse, France; A. Jullien, French Space Agency (CNES), Toulouse, France	1430 hrs AIAA-2016-2593 BepiColombo MPO Spacecraft Pointing Planning for Science Operations S. de la Fuente, M. Casale, J. McAuliffe, P. Rodriguez, European Space Astronomy Centre, Villanueva de la Cañada, Spain	1500 hrs AIAA-2016-2594 International Space Station (ISS) Payload Autonomous Operations J. Cornelius, TBE, Huntsville, AL
Thursday, 19 May 2016			
96-PS-6	PS - Mission Planning Systems I		Room 103
Chaired by: V. NAZAROV, IKI RAN and S. NAKAMURA, Japan Aerospace Exploration Agency			
1330 hrs AIAA-2016-2595 Cluster-II: Using Artificial Intelligence for Automated Ground Station Scheduling N. Faerber, S. Fratini, M. Bartesaghi, T. Costa, B. Teixeira De Sousa, N. Policella, ESA, Darmstadt, Germany; et al.	1400 hrs AIAA-2016-2596 Rosetta / BepiColombo Mission Planning System: from mission to infrastructure A. Dietz, D. Werner, E. Montagnon, S. Lodi, ESA, Darmstadt, Germany; R. Kay, LSE Space GmbH, Darmstadt, Germany; J. Urbanek, Telespazio, Darmstadt, Germany; et al.	1430 hrs AIAA-2016-2597 The TerraSAR-X/TanDEM-X Mission Planning System: Realizing new customer visions by applying new upgrade strategies F. Mrowka, T. Göttfert, M. Wörle, B. Schättler, German Aerospace Center (DLR), Wessling, Germany; F. Stathopoulos, LSE Space GmbH, Wessling, Germany	
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97-SSCSO-4	SSCSO - Ground Segment Systems & Networks for SmallSats II		Room 107
Chaired by: Z. MOUNZER, Telespazio VEGA Deutschland GmbH and E. AITIER			
1330 hrs AIAA-2016-2598 NASA Near Earth Network (NEN) and Space Network (SN) CubeSat Communications S. Schaire, NASA Goddard Space Flight Center, Greenbelt, MD; B. Horne, J. Schier, NASA Headquarters, Washington, D.C.; H. Shaw, G. Bussey, P. Celeste, NASA Goddard Space Flight Center, Greenbelt, MD; et al.	1400 hrs AIAA-2016-2599 NewSpace – forcing a rethink of ground networks B. Eilertsen, M. Krynitz, K. Olafsson, Kongsberg Satellite Services, Tromsø, Norway		

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98-NW-9 1530 - 1600 hrs	Thursday Afternoon Coffee Break		Conference Room Foyer & Exhibition Hall
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99-GNC-7	GNC - Attitude Determination and Control II		Room 108
Chaired by: T. IWATA, Japan Aerospace Exploration Agency-Tsukuba and R. SCHEID			
1600 hrs AIAA-2016-2600 In-orbit performance of Attitude Control System in DubaiSat-2 D. Koh, Satrec Initiative, Daejeon, South Korea; A. AlSayegh, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates; H. Lee, Satrec Initiative, Daejeon, South Korea	1630 hrs AIAA-2016-2601 Estimator for Spacecraft Mass Property and Momentum Actuator Alignment under Influence of External Torque S. Byeon, H. Lee, Y. Jeong, Satrec Initiative, Daejeon, South Korea	1700 hrs AIAA-2016-2602 Roll Attitude Maneuver of CMG-Based Controlled Small Satellite with Magnetic Torque Gimbal Angle Compensation System M. Salleh, N. Mohd Suhadis, University of Science, Malaysia, Nibong Tebal, Malaysia	
Thursday, 19 May 2016			
100-GSCDP-21	GSCDP - Ground Segment Architectures and Design IV		Room 105
Chaired by: A. GANOPOL, Comision Nacional de Actividades Espaciales (CONAE) and E. MELIN			
1600 hrs AIAA-2016-2603 Conceptual Design and Implementation of an Integrated Database for Automatic State Synchronization between Spacecraft and Simulator H. Lee, D. Jung, Korea Aerospace Research Institute, Daejeon, South Korea	1630 hrs AIAA-2016-2604 Opening Satellite Operations to End Users M. Tortosa, Eutelsat, Paris, France; H. Garzon, GMV, Madrid, Spain	1700 hrs AIAA-2016-2605 Today's ground segment software development challenges T. Esdar, EUMETSAT, Darmstadt, Germany	1730 hrs AIAA-2016-2606 The MultiMission COSMO-SkyMed di Seconda Generazione Ground Segment S. Mari, G. Valentini, T. Scopa, Italian Space Agency (ASI), Rome, Italy; S. Serva, Italian Ministry of Defence, Rome, Italy; M. Porfilio, M. Cardone, Italian Space Agency (ASI), Rome, Italy; et al.
Thursday, 19 May 2016			
101-GSCDP-22	GSCDP - Ground System Engineering II		Room 106
Chaired by: M. MERRI, European Space Agency (ESA) and D. BINDSCHADLER, Jet Propulsion Laboratory			
1600 hrs AIAA-2016-2607 The Ground Segment Integration Framework – End-to-End monitoring E. Cruz, E. Brendel, G. Villemos, G. Tanier, CGI, Darmstadt, Germany	1630 hrs AIAA-2016-2608 Multi-Mission Elements: White Elephant or Essential Business Sense? K. Marston, EUMETSAT, Darmstadt, Germany	1700 hrs AIAA-2016-2609 MAL-X: An X-Band terminal in Malindi for the LEOP support of ESA missions J. de Vicente, F. Concaro, P. Droll, ESA, Darmstadt, Germany; G. Autret, Callisto, Darmstadt, Germany; L. Foiaidelli, Telespazio, Darmstadt, Germany	1730 hrs AIAA-2016-2610 Automatic Configuration Management – Autodiscovery of Configuration Items and Automatic Configuration Verification N. Perera, German Aerospace Center (DLR), Oberpfaffenhofen, Germany
Thursday, 19 May 2016			
102-LRBO-4	LRBO - Balloon and Rocket Operations		Room 104
Chaired by: C. CRUZEN, NASA Marshall Space Flight Center and D. NICOLINI, European Space Agency (ESA)			
1600 hrs AIAA-2016-2611 Assessment of the Last Two STRATO SCIENCE Campaigns in Timmins, Canada S. Louvel, J. Evrard, French Space Agency (CNES), Toulouse, France; S. Montminy, Canadian Space Agency, Saint-Hubert, Canada	1630 hrs AIAA-2016-2612 Operations and results of the PILOT balloon borne telescope flight M. Saccoccio, French Space Agency (CNES), Toulouse, France; J. Bernard, Research Institute in Astrophysics and Planetology (IRAP), Toulouse, France; Y. André, French Space Agency (CNES), Toulouse, France; I. Ristorcelli, F. Pajot, L. Montier, Research Institute in Astrophysics and Planetology (IRAP), Toulouse, France; et al.	1700 hrs AIAA-2016-2613 Operation of solid rockets in comparison with hybrid rockets during the STERN project K. Schütttauf, A. Stammering, K. Lappöhn, H. Ciezki, W. Kitsche, German Aerospace Center (DLR), Wessling, Germany	

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103-OCFE-20	OCFE - Human Factor Behavior		Room 102
Chaired by: J. BENOIST, CNES and A. DONATI, European Space Agency (ESA) - ESOC			
1600 hrs AIAA-2016-2614 The importance of people management for successful operations and outstanding performances A. Sela, C. Jacobs, Space Applications Services, Brussels, Belgium; A. Michel, Belgian User Support and Operations Centre, Brussels, Belgium; S. Klaj, L. Steinicke, Space Applications Services, Brussels, Belgium	1630 hrs AIAA-2016-2615 What Space can learn from Aviation: Human Factors in High Reliability Organisations S. Schubert, C. Arbingler, J. Sola Morena, German Aerospace Center (DLR), Wessling, Germany	1700 hrs AIAA-2016-2616 Designing and deploying meaningful audio alarms for control systems B. Teixeira De Sousa, A. Donati, ESA, Darmstadt, Germany; E. Özcan, R. van Egmond, Delft University of Technology, Delft, The Netherlands; J. Edworthy, University of Plymouth, Plymouth, United Kingdom; R. Jansen, Delft University of Technology, Delft, The Netherlands; et al.	
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104-OCFE-21	OCFE - Mission Ops Concept V		Room 101
Chaired by: W. TAI, Jet Propulsion Laboratory and D. MILLIGAN, European Space Agency (ESA) - ESCOC			
1600 hrs AIAA-2016-2617 Simplification as optimization: re-engineering Cluster operational strategy for eclipses. G. Pinzan, LSE Space GmbH, Darmstadt, Germany; M. Bartesaghi, Telespazio, Darmstadt, Germany; B. Teixeira De Sousa, ESA, Darmstadt, Germany	1630 hrs AIAA-2016-2618 Optimisation of Solar Orbiter Data Return D. Lakey, SciSys, Darmstadt, Germany; I. Tanco, J. Sanchez Perez, G. Ravera, ESA, Darmstadt, Germany; S. Thürey, D. Müller, ESA, Noordwijk, The Netherlands; et al.	1700 hrs AIAA-2016-2619 Satellite Operations Strategies and Experience in DEIMOS-1 and DEIMOS-2 Missions P. Pisobarro, M. Carballo, A. Iturri, I. Bueno, A. Mazzoleni, M. Luengo, Deimos Imaging, Boecillo, Spain; et al.	1730 hrs AIAA-2016-2620 Venus Express operational toolset, the forerunner for the next mission operations model. T. Francisco, Telespazio, Darmstadt, Germany; M. Eiblmaier, SciSys, Darmstadt, Germany; O. Camino-Ramos, ESA, Oxfordshire, United Kingdom
Thursday, 19 May 2016			
105-PS-7	PS - Mission Planning Systems II		Room 103
Chaired by: H. DREIHAHN, ESA/ESOC and H. SHAW			
1600 hrs AIAA-2016-2621 The Mission Planning System for the Firebird Spacecraft Constellation M. Wörle, A. Spörl, J. Hartung, C. Lenzen, F. Mrowka, German Aerospace Center (DLR), Wessling, Germany	1630 hrs AIAA-2016-2622 Pointing to a survey of pointings: Euclid Survey System. G. Buenadicha, P. Gómez, J. Hoar, J. Schwartz, ESA, Villanueva de la Cañada, Spain; R. Scaramella, INAF, Monteporzio Catone, Italy; J. Amiaux, CEA/IRFU, Saclay, France	1700 hrs AIAA-2016-2623 Accommodating Navigation Uncertainties in the Pluto Encounter Sequence Design A. Harch, Southwest Research Institute, Boulder, CO	
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106-SSCSO-5	SSCSO - SmallSat Communications - Standards & Technologies		Room 107
Chaired by: Z. MOUNZER, Telespazio VEGA Deutschland GmbH and J. SOULA, CNES			
1600 hrs AIAA-2016-2624 NanoSat MO Framework: Achieving On-board Software Portability C. Coelho, O. Koudelka, Graz University of Technology, Graz, Austria; M. Merri, ESA, Darmstadt, Germany	1630 hrs AIAA-2016-2625 Enabling Affordable Communications for the Burgeoning Deep Space Cubesat Fleet D. Abraham, B. MacNeal, D. Heckman, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA	1700 hrs AIAA-2016-2626 Small Explorer for Advanced Missions (SEAM), a CCSDS compatible CubeSat supported on a global commercial ground network P. Hyvönen, SSC Group, Solna, Sweden; N. Ivchenko, Royal Institute of Technology (KTH), Stockholm, Sweden; M. Tsamsakizoglou, AAC Microtec, Uppsala, Sweden	
Thursday, 19 May 2016			
107-NW-10 1900 - 2100 hrs	Awards Dinner		Cheongnamdae (Presidential Villa of Korea)

Friday

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108-GNC-8	GNC - GNC and Astrodynamics Software		Room 108
Chaired by: B. LEE, Electronics and Telecommunications Research Institute (ETRI) and A. RUDOLPH, European Space Agency (ESA) -ESOC			
0815 hrs AIAA-2016-2627 Thruster Performance Analysis of Hall-effect Thruster by Orbit Evolution. E. Kim, Y. Kim, Y. Jeong, H. Lee, B. Lee, Satrec Initiative, Daejeon, South Korea; A. ALSayegh, Mohammed Bin Rashid Space Centre, Dubai, United Arab Emirates	0845 hrs AIAA-2016-2628 Differential connected element interferometry (D-CEI) by using Beidou GEO satellites S. Chen, H. Li, L. Huang, Beijing Institute of Tracking and Telecommunications Technology, Beijing, China	0915 hrs AIAA-2016-2629 Design of Simulation Package for Passive Attitude Control System of Swayam S. Barve, S. Vijay, College of Engineering Pune, Pune, India; O. Chougule, Indian Institute of Technology Madras, Chennai, India; M. Bondre, J. Deshpande, D. E. Shaw & Co., Hyderabad, India; S. Gaikwad, Credit Suisse, Pune, India; et al.	0945 hrs AIAA-2016-2630 Preliminary assessment of Route Optimisation for FUEl Minimisation and safety of navigation (PROFUMO) A. Settin, N. Salor Moral, E. Barro, Vitrociset, Transinne, Belgium

Friday, 20 May 2016			
109-GSCDP-23	GSCDP - Payload Monitor and Control		Room 106
Chaired by: A. GANOPOL, Comision Nacional de Actividades Espaciales (CONAE) and E. CRUZ			
0815 hrs AIAA-2016-2631 IMIS Tool implementation at SONC for Philae on Comet Operations Monitoring V. Lafaille, French Space Agency (CNES), Toulouse, France; A. Charpentier, ATOS, Toulouse, France	0845 hrs AIAA-2016-2632 Telecommand Validation and Verification software Design and Implementation Y. Qu, L. Zeng, D. Li, T. Liu, X. Wu, Chinese Academy of Sciences, Beijing, China	0915 hrs AIAA-2016-2633 A COTS Flexible Payload Control System for Flexible Payloads and High-Throughput Satellites A. Honold, GMV, Tres Cantos, Spain	

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110-GSCDP-24	GSCDP - Ground Segment Architectures and Design V		Room 105
Chaired by: R. D'AURIA, ALTEC S.p.A. and J. DIFFERDING, NASA Ames Research Center			
0815 hrs AIAA-2016-2634 Supercomputing centers tight coupling to face Big Data Processing P. Brunet, J. Gasperi, M. Poncet, French Space Agency (CNES), Toulouse, France; T. Faure, ATOS, Toulouse, France	0845 hrs AIAA-2016-2635 Design & Implementation of a Robust & Efficient Student Developed Amateur Satellite Ground Station G. Baj, A. Songerwala, V. Desai, A. Kulkarni, S. Desai, S. Pable, College of Engineering Pune, Pune, India; et al.		

Friday, 20 May 2016			
111-LRBO-5	LRBO - Launch Vehicle Systems II		Room 104
Chaired by: J. MONREAL, European Space Agency (ESA) and C. SINGER, NASA-Marshall Space Flight Center			
0815 hrs AIAA-2016-2636 Assembly, Test and Launch Operations for a Nuclear-enabled NASA Mission: Considerations that are Specific to Use of a Nuclear Payload S. Johnson, Idaho National Laboratory, Idaho Falls, ID; Y. Lee, B. Bairstow, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; S. Vernon, Johns Hopkins University Applied Physics Laboratory, Laurel, MD	0845 hrs AIAA-2016-2637 Using data fusion of DMARS-R-IMU and GPS data for improving attitude determination accuracy J. Etl, German Aerospace Center (DLR), Wessling, Germany; D. Kim, Inertial Science, Thousand Oaks, CA; A. Schmidt, J. Turner, German Aerospace Center (DLR), Wessling, Germany	0915 hrs AIAA-2016-2638 Developing of Guidance and Control System for Enhanced Epsilon Launch Vehicle H. Yamaguchi, Y. Morita, T. Imoto, T. Yamamoto, T. Saiki, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan; H. Ohtsuka, IHI Corporation, Tomioka, Japan; et al.	

Friday, 20 May 2016			
112-OCFE-22	OCFE - Ops Concept Constellation		Room 101
Chaired by: J. BENOIST, CNES and B. TEIXEIRA DE SOUSA, European Space Agency (ESA)			
0815 hrs AIAA-2016-2639 Cluster Multiple Spacecraft Per Aperture operations C. Amin, ESA, Darmstadt, Germany	0845 hrs AIAA-2016-2640 Multi-Mission Synergies In Routine Operations Of Low Earth Orbiting Satellites G. Morfill, E. Maurer, S. Zimmermann, R. Nibler, German Aerospace Center (DLR), Wessling, Germany		

Friday, 20 May 2016			
113-OCFE-23	OCFE - Ops Training & Simulation		Room 102
Chaired by: E. AITIER and M. SQUIRE, NASA			
0815 hrs AIAA-2016-2641 Ham Video Commissioning – coordinating and training four ground segments in real-time to successfully support a time critical 7-minute crew activity A. Karl, Space Applications Services, Zaventem, Belgium; A. Michel, Belgian User Support and Operations Centre, Brussels, Belgium	0845 hrs AIAA-2016-2642 LISA Pathfinder: a single simulator for Operations and Science S. Ferrei, ESA, Darmstadt, Germany; E. Baumstark, Telespazio, Darmstadt, Germany; J. Mendes, M. Pantoquilha, ESA, Darmstadt, Germany	0915 hrs AIAA-2016-2643 High Performance Microprocessor Emulation for Software Validation Facilities and Operational Simulators M. Holm, Terma, Leiden, The Netherlands	
Friday, 20 May 2016			
114-PS-8	PS - Mission Planning Systems III		Room 103
Chaired by: P. VAN DER PLAS, European Space Agency (ESA) -ESTEC and S. NAKAMURA, Japan Aerospace Exploration Agency			
0815 hrs AIAA-2016-2644 Google's Satellite Collection Planning L. Rousmaniere, Google, Mountain View, CA	0845 hrs AIAA-2016-2645 The Link Management System for the European Data Relay Satellite Program T. Göttfert, B. Grischekkin, M. Wörle, C. Lenzen, German Aerospace Center (DLR), Wessling, Germany	0915 hrs AIAA-2016-2646 Sentinel-3 operations: implementing plans based on satellite's position M. Molina, GMV, Tres Cantos, Spain	0945 hrs AIAA-2016-2647 Mission Planning on ESA's Billion Star Surveyor Gaia Mission D. Milligan, ESA, Darmstadt, Germany
Friday, 20 May 2016			
115-NW-11 1000 - 1030 hrs	Friday Morning Coffee Break		Grand Ballroom Foyer
Friday, 20 May 2016			
116-PLNRY-5 1030 - 1230 hrs	Closing Ceremony		Grand Ballroom
<p>Introduction for Student Scholarship for KARI & ESA/Awards Ceremony Gwang-Rae Cho President, Korea Aerospace Research Institute (KARI)</p> <p>Closing Keynote Pascale Ulte-Guerard Head of Earth Observation Programme of the Centre National d'EtudesSpatiales (CNES)</p> <p>Invitation to SpaceOps 2018 Jean-Yves Le Gall President of the Centre National d'EtudesSpatiales (CNES)</p> <p>Handover of the SpaceOps Flag KARI and CNES Representatives</p> <p>Closing Address Insun Kim Local Chairman of SpaceOps 2016, Vice President, Korea Aerospace Research Institute (KARI)</p>			

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